

## UNITED STATES MARINE CORPS MARINE CORPS SYSTEMS COMMAND 2200 LESTER STREET QUANTICO, VIRGINIA 22134-5010

IN REPLY REFER TO: 5720

DON-USMC-2022-010648

8 Aug 22

#### SENT VIA EMAIL TO: ashley@foiaprofessionalservices.com

FOIA PROFESSIONAL SERVICES Mrs. Ashley Wood PO Box 852107 Mobile AL 36685

SUBJECT: FOIA DON-USMC-2022-010648

Dear Mrs. Wood:

This responds to your subject FOIA request, dated July 18, 2022, for a copy of the following documents related to contract M67854-20-C-4919:

All Solicitation documents, including attachments
All Contract award documents, including attachments
All Contract Modifications to date, including attachments.

In light of the MCI Worldcom, Inc, v. GSA decision, the Department of Justice Office of Information and Privacy has advised the Navy Office of the General Counsel that submitter notification in accordance with Executive Order 12,600 should be made whenever an agency receives a FOIA request for documents that contain potentially confidential information in order to obtain and consider any objections to disclosure. Therefore, in accordance with Presidential Executive Order 12,600, we allowed the submitter to review the documents and provide comment.

Pursuant to the aforementioned Executive Order 12,600 request, the submitters provided the Marine Corps Systems Command with proposed redactions pursuant to Exemptions 5 U.S.C. § 552(b)(4) and 5 U.S.C. § 552 (b)(6). These submitter redactions are identified in the enclosed documents.

FOIA Exemption 5 U.S.C. § 552(b)(4) exempts from disclosure (i) voluntarily submitted commercial or financial information provided that the submitter does not "customarily" disclose the information to the public and provided that disclosure would be likely to interfere with the continued and full availability of the information to the government, or (ii) compelled information likely to cause substantial harm to the competitive position of

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the person from whom it was obtained and likely to impact on the government's ability to obtain reliable information in the future. See Critical Mass Energy Project v. NRC, 975 F2d 871, 879-80 (D.C. Cir. 1992), cert. denied, 113 S.Ct.1579 (1993); National Parks & Conservation Ass'n v. Morton, 498 F2d 765, 766 (D.C. Cir. 1974); Canadian Commercial Corp. v. Dept. of Air Force, 514 F.3d 37 (D.C. Cir., 2008).

FOIA Exemption 5 U.S.C. § 552(b)(6) exempts disclosure of information that would constitute a clearly unwarranted invasion of personal privacy.

Review included consideration of the 'foreseeable harm standard', i.e., information which might technically fall within an exemption should not be withheld from a FOIA requester unless the agency can identify a foreseeable harm or legal bar to disclosure. No additional foreseeable harm has been noted.

In an effort to minimize further delay we request that you review the enclosures and identify any information that you believe was withheld improperly. MARCORSYSCOM will then determine whether the release of any requested information is proper under the FOIA and provide any additional releasable information in a "final release" letter. If we do not receive any notification from you, which specifically requests the release of any redacted information by October 30, 2022, this letter will become the final response and we will close this FOIA request.

As of August 8, 2022, three hours of search and review (currently billed at \$48 per hour) has been expended during the processing of your request. Please remit a check or money order, payable to the Treasurer of the United States in the amount of \$144.00 to: COMMANDER, ATTN LAW, MARCORSYSCOM, 2200 LESTER STREET, SUITE 120, QUANTICO VA 22134-5010.

In view of the above, you may consider this to be an adverse determination that may be appealed. Since you have created an account in FOIA online, you may submit an appeal directly within the web-based system. To do this, you would log in to your account, retrieve your original request, and then click on the "Create Appeal" tab in the left-hand column. The basic information from your request will be duplicated for you, and then you can type in the basis of your appeal. If you prefer to

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use regular mail, you may submit an appeal to the Judge Advocate General (Code 14), 1322 Patterson Avenue SE, Suite 3000, Washington Navy Yard, DC 20374-5066. Your appeal, if any, must be postmarked within 90 calendar days from the date of this letter and should include a copy of your initial request, a copy of this letter, and a statement indicating why you believe your appeal should be granted. I recommend that your appeal and its envelope both bear the notation, "Freedom of Information Act Appeal".

You also have the right to seek assistance and/or dispute resolution services from the Marine Corps FOIA Public Liaison, Ms. Sally Hughes, at <a href="https://normal.com/html">https://normal.com/html</a> Marine Corps FOIA Public Liaison, Mr. Christopher the Department of the Navy FOIA Public Liaison, Mr. Christopher Julka, at <a href="https://normal.com/christopher.a.julka@navy.mil">Christopher.a.julka@navy.mil</a> or (703) 697-0031. You may also contact the Office of Government Information Services (OGIS) for assistance and/or dispute resolution at <a href="https://ogis.archives.gov">ogis@nara.gov</a> or 1-877-684-6448. For more information online about services provided by OGIS, please visit their website at <a href="https://ogis.archives.gov">https://ogis.archives.gov</a>.

Any questions concerning this matter should be directed to Mrs. Bobbie Cave at (703) 432-3934 or bobbie.cave@usmc.mil.

Sincerely,

LISA L. BAKER

Counsel

#### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

D. SYSTEM/ITEM E. CONTRACT/PR NO. MCB Quantico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE	
MCB Quantico Modernization  M67854-20-C-XXXX  Technology Trends Group, LLC  1. DATA ITEM NO. A001  2. TITLE OF DATA ITEM System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  3. SUBTITLE N/A	
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a Contractor's Internal Unclassified Information System	ES
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A AUTHORITY (F. C.	ES
4. AUTHORITY (Data Acquisition Document No.)  DI-MGMT-82247  5. CONTRACT REFERENCE  SOW, Section 5.2  6. REQUIRING OFFICE  USMC, MCSC	ES
7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION 14. DISTRIBUTION	ES
XX REQUIRED As Required As Required b. cop	
8 APP CODE 11 AS OF DATE 13. DATE OF SUBSEQUENT 2 ADDRESSES	Final
N/A D $N/A$ Submission $A$ . Addressee $A$ . Reg	1
16. REMARKS COR 0	1 0
Block 5: Contractor shall provide an SSP in accordance with NIST SP 800-171, indicating PCO 0	0 1
whether the Contractor has implemented the security requirements, plans to implement the PEO/PfM ISSM 0	0 1
security requirements, or that the requirement is not applicable. Attached to the SSP shall be APM 0	0 1
a populated POA&M with all outstanding findings discovered during the self-audit	1
describing compliance or non-compliance and plan of action(s) of the total list of security	
controls. This submission shall be upon award, on a quarterly basis or upon request.	
The same and the same and a specific	
Block 7: Inspection/acceptance requirements specified elsewhere in the contract.	
Block 9: DISTRIBUTION STATEMENT D: Distribution authorized to the Department of	
Defense and U.S. DoD contractors only. (Reason: Administrative or Operational Use)	
(Date of Determination: DDMMMYYYY). Other requests for this documentation shall be	
referred to:	
Marine Corps System Command	
Program Office	_
2200 Lester St	
Quantico, VA 22134	
Blocks 10-13: The Contractor shall deliver the initial SSP and POA&M (and appropriate	
extracts thereof) quarterly, or upon Program Management Offices request. The SSP will be	
reviewed for acceptance by the Government Program Management Office (PMO). The	
PMO shall be granted full access to validate the information in the Contractor's submission	
on an ad hoc basis without notice or upon replacement or rotation of the Government PM.	
Block 14: Notification of delivery shall be made to Stephen J. Magee, COR. Any further	
distribution beyond what's listed will be authorized by the Program Management Office	
(PMO). Email addresses for Distribution list POCs:	
COR: Stephen Magee, Stephen.j.magee@usmc.mil, 703-784-4986	
PCO: Brenda Edwards, Brenda.edwards@usmc.mil, 703-784-6541	
APfM Logistics: Darin Simmons, darin.simmons@usmc.mil, 703-432-5171	
PEO/PfM ISSM: Jeffrey Miller, Jeffrey.k.miller@usmc.mil, 703-784-6591	
Note: The Government Procuring Contracting Officer (PCO) does not require the formal	
deliverable, however the Letter of Transmittal should be sent to the PCO to document	
delivery notification and compliance with this CDRL. Deliver all copies via electronic	
media where feasible, otherwise deliver in hard copy.	
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17. PRICE GROUP

18. ESTIMATED

TOTAL PRICE

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	B. EXHIBIT	C. CATEGORY:	OTHER X			
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D. SYSTEM/ITEM  MCB Quantico Modernization	E. CONTRAC n M67854	17PR NO. 1-20-C-XXXX	F. CONTRACTOR	chnology Trends	Group, LLC	
16. REMARKS (Continued)	ı		ı			
DD FORM 1423-1, FEB 2001				Reset	Page of_	Pages

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item  ${\bf 4}$
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- **Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

#### FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

#### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

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17. PRICE GROUP

18. ESTIMATED

TOTAL PRICE

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16. REMARKS (Continued)					23	17	
DD FORM 1423-1, FEB 2001	l				Reset	Page of	Pages

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- Item A. Self-explanatory.
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		CONTRAC	CT DATA REQU (1 Data Item		IST			
A. CONTRACT LINE ITEM NO.	B. EXHIE		C. CATEGORY:	OTHER	ζ			
000X, 000Y, 000Z		A	TDP TM					
D. SYSTEM/ITEM  MCB Quantico Modernizat	tion	E. CONTRACT	<b>г/PR NO.</b> I-20-C-XXXX	F. CONTRACT	' <b>OR</b> nology Trends Grou	n IIC		
16. REMARKS (Continued)	ион	1010/034	r-20-C-AAAA	rechr	lology Trellus Grou	p, LLC		
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DD FORM 1423-1, FEB 2001	1				Dazat	Page	of	Pages
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#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- **Item C.** Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," "Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- **Item 3.** Enter subtitle of data item for further definition of data item (optional entry).
- **Item 4.** Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- **Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- **Item 6.** Enter technical office responsible for ensuring adequacy of the data item.
- **Item 7.** Specify requirement for inspection/acceptance of the data item by the Government.
- **Item 8.** Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- **Item 13.** Specify when subsequent submittals are required, when applicable.
- **Item 14.** Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- **Item 16.** Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

#### FOR THE CONTRACTOR

- **Item 17.** Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

**DID: DI-MGMT-82247** 

#### **DATA ITEM DESCRIPTION**

Title: Contractor's Systems Security Plan and Associated Plans of Action to Implement NIST SP 800-171 on a Contractor's Internal Unclassified Information System

Number: DI-MGMT-82247 Approval Date: 20181031

AMSC Number: 9992 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: OSD-SO Project Number: MGMT-2018-049

**Applicable Forms: None** 

Use/relationship: This Data Item Description (DID) contains the data content, format, and intended use of the Contractor's system security plan (or extracts thereof), to include any associated plans of action, addressing the Contractor's internal unclassified information system(s). When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information - as defined in DFARS Clause 252.204-7012 - will be processed, stored, or transmitted on an unclassified information system that is owned, or operated by or for, the Contractor, the Contractor shall develop, document, and periodically update a system security plan(s), to include any associated plans of action, for the Contractor's internal unclassified information system in accordance with the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations. Security Requirement 3.12.4 of the NIST SP 800-171 requires that system security plans describe system boundaries, system environments of operation, how security requirements are implemented, and the relationships with or connections to other systems. Security Requirement 3.12.2 of the NIST SP 800-171 requires that plans of action describe how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's unclassified information system. The system security plan (or extracts thereof) and any associated plans of action may be used by the government as input to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). This DID contains the information that shall be conveyed within the system security plan and any associated plans of actions for the Contractor's internal unclassified information system. There is no prescribed format or specified level of detail for how that information is conveyed. There is no requirement for the government to approve the system security plan or any associated plans of action for the Contractor's internal unclassified information system, but the government may request that the Contractor submit the system security plan (or extracts thereof), and any associated plans of action, such that the government may review the Contractor's implementation of security requirements. When requested by the government, the submitted system security plan (or extracts thereof) and any associated plans of action for the Contractor's internal unclassified internal information system may: - Demonstrate to the government the Contractor's implementation or planned implementation of the security requirements for their internal unclassified information system, or

- Be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or

**DID: DI-MGMT-82247** 

operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). Requirements:

- 1. <u>Reference Documents</u>: The applicable issue of the documents cited herein, including development dates and dates of any applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format acceptable.
- 3. <u>Content</u>: The system security plan (or extracts thereof) shall include a description of system boundaries, system environments of operation, how security requirements are implemented or how organizations plan to meet the requirements, and the relationships with or connections to other systems. Any associated plans of action shall include a description how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's information system.
- 3.1. <u>Cover Page</u>: The cover page of the system security plan (or extracts thereof) and any associated plans of action shall identify the following information:
- 3.1.1. Title of the document (i.e., Systems Security Plan and Associated Plans of Action for [Name of Contractor's Internal Unclassified Information System])
  - 3.1.2. Company name
  - 3.1.3. Data Universal Numbering Systems (DUNS) Number
  - 3.1.4. Contract number(s) or other type of agreement
  - 3.1.5. Facility Commercial and Government Entity (CAGE) code(s)
  - 3.1.6. System that this System Security Plan and any associated Plans of Action addresses
  - 3.1.7. Date of latest revision
  - 3.1.8. All appropriate distribution and classification statements/markings
- 3.2. <u>System Identification</u>: The purpose of the system security plan shall be communicated in this section, to include a description of the function/purpose of the Contractor's internal unclassified information system(s)/network(s) that is (are) addressed in the plan.
- 3.3. <u>System Environment</u>: A detailed topology narrative and graphic shall be included that clearly depicts the Contractor's internal unclassified information system boundaries, system interconnections, and key components. This does not require depicting every device, but would include an instance of operating systems in use, virtual and physical servers (e.g., file, print, web, database, application), as well as any networked workstations, firewalls, routers, switches, copiers, printers, lab equipment, etc. If components of other systems that interconnect/interface with this system need to be shown on the diagram, denote the system boundaries by referencing the security plans or names and owners of the other system(s) in the diagram. Include or reference (e.g., to an inventory database or spreadsheet) a

#### **DID: DI-MGMT-82247**

complete hardware and software inventory, including make/model/version and maintenance responsibility.

- 3.4. Security Requirements: Describe how the Contractor addresses/will address security requirements in each of the following NIST SP 800-171 security requirement families (including basic and derived requirements) for protecting covered defense information in the Contractor's systems and organizations:
  - 3.4.1. Access Control (3.1.1 3.1.x)
  - 3.4.2. Awareness and Training (3.2.1 3.2.x)
  - 3.4.3. Audit and Accountability (3.3.1 3.3.x)
  - 3.4.4. Configuration Management (3.4.1 3.4.x)
  - 3.4.5. Identification and Authentication (3.5.1 3.5.x)
  - 3.4.6. Incident Response (3.6.1 3.6.x)
  - 3.4.7. Maintenance (3.7.1 3.7.x)
  - 3.4.8. Media Protection (3.8.1 3.8.x)
  - 3.4.9. Personnel Security (3.9.1 3.9.x)
  - 3.4.10. Physical Protection (3.10.1 3.10.x)
  - 3.4.11. Risk Assessment (3.11.1 3.11.x)
  - 3.4.12. Security Assessment (3.12.1 3.12.x)
  - 3.4.13. System and Communications Protection (3.13.1 3.13.x)
  - 3.4.14. System and Information Integrity (3.14.1 3.14.x)
- 3.5. <u>Plans of Action</u>: In accordance with Security Requirement 3.12.2, provide any plans of action developed to address how and when the Contractor will implement any security requirements not yet implemented, identify known deficiencies and vulnerabilities in the contractor's internal unclassified information system, how and when the Contractor will correct identified deficiencies and reduce or eliminate vulnerabilities in the Contractor's system.

#### DI-MGMT-XXXXX

#### **DATA ITEM DESCRIPTION**

Title: Cyber Incident Reporting for a Contractor's Internal Unclassified Information System(s)

Number: DI-MGMT-XXXXX Approval Date: TBD
AMSC Number: YYYY Limitation: TBD
DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: TBD Project Number: MGMT-XXXX-XXX

**Applicable Forms: None** 

**Use/relationship:** When DFARS Clause 252.204-7012 is included in a contract for which Controlled Unclassified Information (CUI) – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted during the course of executing the terms a Department of Defense (DoD) contract, cyber incidents shall be reported to the Defense Cyber Crime Center (DC3) via the DIBNet portal.

This Data Item Description (DID) contains the information that is required of the Contractor submitting the incident report to DC3.

This information, once reported, will be shared by DC3 as threat information between the DoD and DIB companies. When DC3 receives a DFARS cyber incident report, DC3 will send an unclassified encrypted email containing the submitted incident report to the government Contracting Officer point of contact identified in the submitted report to have the report placed in the contract file to document the action, with a courtesy copy to the following:

- Director, DC3/DCISE
- Director, OSD DAMO
- Director, DIB CS/IA Program Office
- Contract Program Management Office

#### **Requirements:**

- 1. Format: Use the format prescribed through the DIBNet Portal at <a href="http://dibnet.dod.mil">http://dibnet.dod.mil</a>.
  - Under "DoD's DIB Cybersecurity (CS) Program" on the right side of the page, select "Voluntary Report".
  - Since this is reporting is to satisfy a contractual requirement, select "Mandatory Incident Report".
  - Follow the "Mandatory Incident Report" wizard for the following:
    - o General Information
    - I. Company Identification
    - II. Company POC Information
    - III. Contract or other Agreement
    - IV. Incident Information
    - V. Ancillary Information

End of DI-MGMT-XXXX

DID: DI-SCRE-82258

#### **DATA ITEM DESCRIPTION**

Title: CONTRACTOR'S RECORD OF TIER 1 LEVEL SUPPLIERS RECEIVING/ DEVELOPING COVERED

**DEFENSE INFORMATION** 

Number: DI-SCRE-82258 Approval Date: 20190313

AMSC Number: 10008 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: RS Project Number: MGMT-2019-010

**Applicable Forms: None** 

**Use/relationship:** When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted on a tier 1 level supplier's internal unclassified information system. (DFARS Clause 252.204-7012 can be found at https://www.acq.osd.mil/dpap/dars/dfars/html/current/252204.htm)

- a. This Data Item Description (DID) contains the information that is required of the Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information. This information will be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned or operated by, or for, the contractor (i.e. contractor's internal unclassified information system). This information will:
- (1) Demonstrate to the government the Contractor's ability to restrict the dissemination of covered defense information specified in, or developed under, the contract to subcontractors that execute requirements that involve the covered defense information.
- (2) Demonstrate to the government the Contractor's ability to ensure that their tier 1 level suppliers safeguard covered defense information in accordance with DFARS Clause 252.204-7012.
- b. This DID contains the format, content, and intended use information for the data deliverable resulting from the work task described in the contract.

#### Requirements:

- 1. Reference Documents: The applicable issue of the documents cited herein, including approval dates and dates of applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format is acceptable.
- 3. Content: The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information must include a description of how the Contractor will identify and restrict the dissemination of covered defense information to subcontractors who require the covered defense information to execute the requirements in their contract and how the Contractor will ensure that their tier 1 level suppliers safeguard covered defense information with the requirements of DFARS Clause 252.204-7012. The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information shall include the following:

3.1.	Cover Page: The cover page of the Contractor's Record of Tier 1 Level Suppliers
Receivir	ng/Developing Covered Defense Information shall include:

**DI-SCRE-82258** 

- a. Title of the document (i.e., [Name of Contractor] Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information
- b. Contractor's Data Universal Numbering Systems (DUNS) and Commercial and Government Entity (CAGE) code numbers
- c. Contract number(s) or other type of agreement (if available)
- 3.2. Tier 1 Level Supplier Information (for each Tier 1 Level Supplier receiving/developing covered defense information associated with this contract)
- a. Supplier Name
- b. Supplier contract and/or agreement number (if available)
- c. Supplier Point of Contact: name, email, and phone number
- d. Date the Tier 1 Level Supplier sub contract was put in place
- e. Number of sub contracts with Tier 1 Level Supplier
- f. Supplier contract and/or agreement contains or will contain substance of DFARS Clause 252.204-7012 Y/N
- g. Supplier contract and/or agreement contains or will contain cyber security measures and/or requirements other than those identified in DFARS Clause 252.204-7012 and National Institute of Standards and Technology (NIST) Special Publication (SP) 800- 171 Rev 1: Y/N (NIST SP 800-171 can be found at https://csrc.nist.gov/publications/detail/sp/800-171/rev-1/final
- h. Contractor's DUNS and CAGE numbers:

#### DID: DI-SCRE-82258

- i. Supplier has conducted or will conduct a self-assessment in accordance with NIST SP 800-171A:Y/N (NIST SP 800-171A can be found at https://csrc.nist.gov/publications/detail/sp/800-171a/final)
- j. Supplier System Security Plan and Associated Plans of Action in accordance with NIST SP 800-171 Rev 1 Security Requirement 3.12.4 and 3.12.2
- k. List of Supplier's Tier 1 Level Suppliers receiving and/or developing covered defense information

END OF DI-SCRE-82258

Site	C9300L-24P-4X-A	C9300L-48P-4X-A	C9300-48P-A 2X	C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X	C9300-48P-A 7X	4 Port Switch	8 Port Switch	C9500-48Y4C-A	SFP-10G-LR++=	Total Ports per Site
QUAN	121	52	50	237	10	6	0		0	18	950	19,944
GPON	0							49			0	0
INHZ	4	2	6							2	30	480
PKWY	0	0		15							12	720
SCPA	0	0		3							4	144
BAND	0	0	0								0	0
BRRK	0	0	0	0						0	0	0
WNYZ	0	0	0	0						0	0	0
ANNZ	2	1		3						0	10	240
											•	
Total	127	55	56	258	10	6	0	49	0	20	1006	21,528

\*\*These 8 port switches will convert to C9300L-24P-4X-A switches once we validate through the VSS

**These 4 port switches will convert to C9300L-24P-4X-A switches once we validate through th	e VSS
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C9300L-24P-4X-A	127
C9300L-48P-4X-A	55
C9300-48P-A	330
Total EUB Switches	512
C9300-48P-A With NM-8X	234
C9300-48P-A With No NM	96
STACK-T1-3M	24
CAB-SPWR-150CM	24

NOTE: Total switches proposed does not currently take into account the 25% growth requirement. This estimate is based on a 1 for 1 refresh and included necessary licensing to support SDA/Multi-tenancy) We will dial this number in following the VSS which will then shed light on current utilization with projected growth factored in

Host Name	Device Model	C9300L-24	C9300L-48	C9300-48P-A 2X C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X C9300-48P-A 7X	8 Port	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
QUAN-U03-AS-21	WS-C3560V2-24TS-S	1							4	Bldg_0711_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3HJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-14	WS-C3560V2-24TS-S	1							4	Bldg_0716_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X379	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-34	WS-C3560V2-48TS-S		1							Bldg_1001_Floor_0001_Room_0001_Rack_0001_	FDO1719Y0XA	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-58	WS-C3560V2-24TS-S	1								Bldg_1002_Floor_0001_Room_0001_Rack_0001_	FDO1437X020	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-25	WS-C4506-E		5				ļ			Bldg_1019_Floor_0001_Rm_Telco_Rack_0001_	SPE1730008V	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-46	WS-C3560V2-24TS-S	1								Bldg_1304_Floor_0001_Room_Telco1_Rack_0001_	FD01437X376	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-23	WS-C3560V2-24TS-S	1								Bldg_13201_Floor_0001_Room_Closet_Rack_0001_	FD01437X039	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-29	WS-C3560V2-48TS-E		1				<u> </u>		1	Bldg_15_Floor_0001_Room_0001_Rack_0001_	FD01529X1WX	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-60	WS-C3560V2-24TS-S	1					<u> </u>			Bldg_15000_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2NH	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-61	WS-C3560V2-24TS-S	1					<u> </u>			Bldg_15001_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2NU	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-62	WS-C3560V2-24TS-S						<u> </u>			Bldg_15002_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2RP	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-64	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15004_Floor_0001_Rm_Telco1_Rack_0001_	FD01645Y139	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-65							<u> </u>		1	Bldg_15005_Floor_0001_Rm_Telco1_Rack_0001_	FD01645Y12X	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-66	WS-C3560V2-24TS-S						<u> </u>			Bldg_15006_Floor_Basement_Room_Telco1_Rack_0001	FD01645Y13J	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-67	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15007_Floor_0001_Rm_0001_Rack_0001_	FD01645Y13L	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-68	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15008_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2RW	NCR QUAN Nodes		QUAN QUAN
QUAN-U08-AS-69							-		1	Bldg_15009_Floor_0001_Rm_0001_Rack_0001_	FD01645Y138	NCR QUAN Nodes	NCR NCR	
QUAN-U08-AS-41	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_17_Floor_0001_Room_0001_Rack_0001_	FD01437V146	NCR QUAN Nodes		QUAN
QUAN-U08-AS-42	WS-C3560V2-2415-5 WS-C4503-E			2			-			Bldg_17_Floor_0001_Room_0002_Rack_0001_  Bldg 17 Floor 2 Room 219 Rack 0001	FD01437V2AQ	NCR QUAN Nodes NCR QUAN Nodes	NCR	QUAN QUAN
QUAN-U08-AS-43		_	1	2							FXS1735Q2AB	,-	NCR	
QUAN-U08-AS-27	WS-C3560V2-48TS-S WS-C4503-E		1	2						Bldg_1775_Floor_0001_Rm_Telco1_Rack_0001_	FDO1633X19P	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-82 QUAN-U05-AS-20	WS-C4503-E WS-C3560V2-24TS-S	-	-	<del>                                     </del>						Bldg_1775_Floor_0001_Room_telco1_Rack_0001_ bldg 1775 Floor 1 Room 0001 Rack 0001	SPE1735003S FDO1437X02V	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U05-AS-20 QUAN-U05-AS-21	WS-C3560V2-241S-S WS-C3560V2-48TS-S		4							bldg_1775_Floor_1_Room_0001_Rack_0001	FDO1437X02V FDO1633X19U	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U05-AS-21 QUAN-U08-AS-47	WS-C3560V2-4815-5 WS-C4503-E	-	1	3							SPE171500KE	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-47 QUAN-U08-AS-74	WS-C4503-E WS-C4503-E	+	1	2						Bldg_1776_Floor_0001_Room_Telco1_Rack_0001  Bldg_1998_Floor_0001_Room_Telco_1_Rack_0001	SPE171300KE SPE134300YL	NCR QUAN Nodes  NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-74	WS-C3560V2-48TS-E		1	2							FDO1529X1X5		NCR	QUAN
QUAN-U08-AS-44 QUAN-U08-DR-01	WS-C6509-E		1					1	4	Bldg_1999_Floor_0001_Room_0001_Rack_0001_ Bldg_1999_Floor_0001_Room_Telco1_Rack_0001	SMC1643006Z	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-DR-02	WS-C6509-E							1	•		SMC16430072	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DR-02 QUAN-U08-AS-04	WS-C3560V2-48TS-S		1					1		Bldg_1999_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X19A	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-04	WS-C4506-E	_	1	3						bldg_2004_Floor_1_Room_0117_Rack_0001  Bldg_2004_Floor_1_Room_TELCO1_Rack_1	FXS1732Q3ZC	NCR QUAN Nodes	NCR	QUAN
	WS-C4506-E WS-C4506-E	_		3							- ·		_	QUAN
QUAN-U08-AS-38 QUAN-U08-AS-39	WS-C4506-E WS-C4506-E	_		3						Bldg_2006_Floor_0001_Room_108_Rack_0001_	FXS1732Q3WE FXS1732Q3ZU	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-40	WS-C4506-E WS-C4506-E	_		3						Bldg_2006_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q320 FXS1731Q4AY	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-40	WS-C3560V2-48TS-S	_	1	3						Bldg_2006_Floor_3_Room_308_Rack_1_ Bldg_2006_Floor_Basement_Room_B014_Rack_1	FDO1633X1BR	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-21	WS-C4506-E	_	1	3							FXS1732Q3CN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-21	WS-C4506-E WS-C4506-E			3						Bldg_2008_Floor_0001_Room_Telco1_Rack_0003_ Bldg_2008_Floor_0003_Room_0003_Rack_0001	SPE173000A4	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-20	WS-C4506-E			3							SPE173000A4 SPE173000C9	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-20	WS-C4506-E WS-C4506-E			3						Bldg_2008_Floor_2_Room_231_Rack_2_	FXS1732Q406	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-08	WS-C4506-E			3						Bldg_2009_Floor_0002_Room_0002_Rack_0001_ Bldg_2009_Floor_3_Room_332_Rack_1	SPE172801YN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-31	WS-C4506-E			3						Bldg 2010 Floor 0002 Rm 211 Rack 0001	SPE17300087	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-32	WS-C4506-E			3			1			Bldg 2011 Floor 0001 Rm 116 Rack 0002	SPE17300087 SPE17300096	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-21	WS-C3560V2-48TS-E		1							Bldg 2013 Floor 0001 Room 0001 Rack 0001	FDO1529X1XV	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-20	WS-C3560V2-24TS-S	1	1				1			Bldg 2013 Floor 1 Room BreakRm Rack 1	FD01329X1XV FD01437V110	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-22	WS-C3560V2-48TS-E	-	1				1		1	Bldg 2014 Floor 0001 Room Telco1 Rack 0001	FD01437V110	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-70	WS-C3560V2-48PS-S		1							Bldg 2015 Floor 0001 Rm Telco1 Rack 0001	FD01529X1XG	NCR QUAN Nodes	NCR	QUAN
OUAN-U04-AS-09	WS-C3560V2-48TS-S		1				1			Bldg 2032 Floor 0001 Room 000 Rack 001	FD01723Y2D5	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-26	WS-C4506-E		1	3						Bldg_2032_Floor_0001_Room_Telco1_Rack_0001_	SPE173000BS	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-24	WS-C3560V2-48TS-S		1							Bldg 2032 Floor 0001 Room Telco2 Rack 0001	FDO1633X1A2	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-01	WS-C4506-E		1	2			1			Bldg 2034 Floor 0001 Room Telco1 Rack 0001	SPE1728020L	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-02	WS-C4506-E			3						Bldg 2034 Floor 1 Rm TelcoSouth Rack 3	SPE17280208	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-10	WS-C3560V2-48TS-S		1							Bldg 2043 Floor 1 Rm 124 Rack 1	FDO1636Y15K	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-11	WS-C4503-E		1	2			1			Bldg 2043 Floor 1 Room EMB Rack 1	SPE134300ZY	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-12	WS-C4506-E	+	<b>†</b>	2						Bldg 2043 Floor 1 Room Telco 1 Rack 0002	FXS1731Q4AR	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-46	WS-C3560V2-24TS-S	1								Bldg 2045 Floor 0001 Room 0001 Rack 0001	FD01437V125	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-17	WS-C4506-E	+ - '	†	2						Bldg 2048 Floor 0001 Room Telco1 Rack 0001	FXS1732Q3W0	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-17	WS-C4506-E	+	<b>†</b>	3						Bldg 2076 Floor 0001 Room 0001 Rack 0001	FXS1732Q411	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-02	WS-C4506-E	+	<b>†</b>	3						Bldg 2076 Floor 0001 Room 0006 Rack 0001	FXS1732Q411	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-A3-02	WS-C6506-E							1	-	Bldg 2076 Floor 0001 Room 0006 Rack 0001	SAL172264PK	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-DR-02	WS-C6506-E	+	<b>†</b>					1	1	Bldg 2076 Floor 0001 Room 0006 Rack 0001	SAL172264PJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-DR-02	WS-C4506-E WS-C4506-E	+	<del>                                     </del>	2				1	2	Bldg 2076 Floor 0002 Room 0002 Rack 0001	FXS1732Q3ZG	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-04 QUAN-U08-AS-35	WS-C4506-E WS-C3560V2-48TS-E	+	1							Bldg 2077 Floor 0002 Room 0002 Rack 0001	FDO1529X1X4	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-35	WS-C3560V2-48TS-E WS-C3560V2-48TS-E	+	1							Bldg 2077 Floor 0002 Room 0210 Rack 0001	FD01529X1X4 FD01529X263	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-36	WS-C4506-E		1	2			1			Bldg 2077 Floor Basement Rm B28 Rack 0001	FXS1732Q3WC	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-36	WS-C4506-E WS-C4506-E	+	<del>                                     </del>	3						Bldg 2079 Floor 1 Rm 138 Rack 1	FXS1732Q3WC FXS1732Q412	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-17 QUAN-U08-AS-18	WS-C4506-E WS-C4506-E		1	3						Bldg 2079 Floor 2 Rm 226 Rack 1	SPE17280245	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-18	WS-C4506-E WS-C3560V2-24TS-S	1	<del>                                     </del>							bldg 2080 Floor 1 Room 0001 Rack 0001	FD01437V291	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-81	WS-C4503-E		1	2						Bldg 2082 Floor 0001 Room 115 Rack 0001	SPE171500KJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-32	WS-C4503-E WS-C3750G-48PS-S	+	1							Bldg 2082 Floor 0001 Room B12 Rack 0001	FOC1109Y2F1	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-26 QUAN-U03-AS-40	WS-C3750G-48P-S		1	2						Bldg 2084 Floor 0001 Room Telco1 Rack 0001	FDO1719H3KR,FDO1713Z0RP	•	NCR	QUAN
QUAN-U03-AS-40 QUAN-U03-AS-43	WS-C3750X-48P-S WS-C3750X-48P-S		<u> </u>	2						Bldg 2084 Floor 0001 Room Telco1 Rack 0001  Bldg 2084 Floor 0001 Room Telco1 Rack 0001	FDO1719H3KK,FDO171320KF	•	NCR NCR	QUAN
QUAN-U03-AS-43 QUAN-U03-AS-41	WS-C3750X-48P-S WS-C3750X-48P-S		-	3						Bldg 2084 Floor 0001 Room Telco1 Rack 0001  Bldg 2084 Floor 0002 Room Telco2 Rack 0001	FDO1720R1HM,FDO1608R11		NCR NCR	QUAN
QUAN-U03-AS-41 QUAN-U03-AS-42	WS-C3750X-48P-S WS-C3750X-48P-S	+	1	3						Bldg 2084 Floor 0002 Room Telco2 Rack 0001  Bldg 2084 Floor 0003 Room Telco3 Rack 0001	FDO1720R1WE,FDO1719H3L		NCR NCR	QUAN
-		+	_	3							,			QUAN
QUAN-U04-AS-07	WS-C3560V2-48TS-E		1						4	Bldg_2100_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WP	NCR QUAN Nodes	NCR	_

_					<u></u>								
QUAN-U04-AS-08	WS-C3560V2-48TS-S		l e					2	Bldg_2100_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X190	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-43	WS-C4503-E		2					4	Bldg_2105_Floor_0001_Room_Telco1_Rack_0001_	SPE171500L0	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-27	WS-C3560V2-24TS-S	1						2	Bldg_2105_Floor_0002_Room_Telco2_Rack_0001_	FDO1437V10K	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-49	WS-C3560V2-24TS-S	1						4	Bldg_2105T_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y19S	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-12	WS-C3560V2-24TS-S	1						4	Bldg_2106_Floor_0001_Room_0164_Rack_1_	FDO1438X004	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-51	WS-C3560V2-24TS-S	1						4	Bldg_2110_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y191	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-11	WS-C3560V2-24TS-S	1						4	Bldg_2117_Floor _0001_Room_Telco1_Rack_0001_	FDO1437X36H	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-15	WS-C3560V2-24TS-S	1						4	Bldg_2118_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V11J	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-01	WS-C4506-E		3	3				4	Bldg_2121_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3W6	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-60	WS-C3560V2-24TS-S	1						4	Bldg_2122_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y13Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-61	WS-C3560V2-24TS-S	1						4	Bldg_2123_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y121	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-44	WS-C3560V2-24TS-S	1						4	Bldg_2124_Floor_0001_Room_Teco1_Rack_0001_	FDO1438X05W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-84	WS-C3560V2-24TS-S	1						4	bldg_2132_Floor_1_Room_0119_Rack_0001	FDO1437X3DS	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-06	WS-C3560V2-24TS-S	1						4	Bldg_2177_Floor_1_Room_1_Rack_Telco1_	FDO1645Y13Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-08	WS-C3560V2-24TS-S	1						4	Bldg_2179_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X01L	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-04	WS-C3560V2-24TS-S	1						4	Bldg_2187_Floor_0001_Room_Teco2_Rack_0001_	FDO1437X01Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-03	WS-C3560V2-24TS-S	1						2	Bldg_2187_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X3LL	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-22	WS-C3560V2-24TS-S	1						4	Bldg_2189_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y14Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-DR-01	WS-C6506-E						1		Bldg 2189A Floor 0001 Room Telco1 Rack 0001	SAL1633KRTA	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-DR-02	WS-C6506-E						1		Bldg 2189A Floor 0001 Room Telco1 Rack 0004	SAL17236L1N	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-07	WS-C4506-E		3	3				4	Bldg 2189N Floor 0001 Room Telco1 Rack 0001	SPE173000DQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-07	WS-C4506-E		2						Bldg_2200_Floor_0001_Room_153A_Rack_0001_	FXS1732Q408	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-06	WS-C4503-E		2						Bldg 2200 Floor 0001 Room B-wing Rack 0001	SPE1343012Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-05	WS-C4503-E		2	1					Bldg 2200 Floor 0001 Room C-wing Rack 0001	SPE134300VS	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-02	WS-C4506-E		3	3					Bldg 2200 Floor 0001 Room Telco1 Rack 0003	FOX1338GZZK	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-08	WS-C4506-E			3		<b>†</b>	1		Bldg 2200 Floor 0002 Room 207 Rack 0001	FOX1338GWXX	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-09	WS-C4506-E		3	3					Bldg 2200 Floor 0002 Room 229 Rack 0001	FXS1732Q3Z1	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-10	WS-C4506-E			3					Bldg 2200 Floor 0002 Room 252 Rack 0001	FOX1338GZZL	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-03	WS-C4503-E		2						Bldg 2200 Floor 000B Room B20B Rack 0002	SPE1343012R	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-28	WS-C6506-E		2						Bldg 2200 Floor 000B Room B65 Rack 0001	SAL172264NQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-04	WS-C4503-E		2						Bldg 2200 Floor Basement Room A-wing Rack 0001	SPE1340004Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-12	WS-C4506-E			1					Bldg 2201A Floor 0001 Room 110 Rack 0001	FXS1732Q3CV	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-DR-01	WS-C6506-E			,					Bldg 2201A Floor 0001 Room Telco1 Rack 0001	SAL172369MW	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-DR-02	WS-C6506-E	_							Bldg 2201A Floor 0001 Room Telco1 Rack 0001	SAL172264PD	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-20	WS-C4506-E		3						Bldg 2202 Floor 0001 Room 105 Rack 0001	FXS1732Q3W5	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-22	WS-C4506-E								Bldg 2202 Floor 0002 Room 0210 Rack 0001	SPE173000BF	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-18	WS-C4506-E								Bldg 2202 Floor 000B Room 0001 Rack 0001	FXS1732Q3VQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-13	WS-C4506-E								Bldg 2203 Floor 1 Room Telco 1 Rack 1	FOX1335GRHE	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-32	WS-C4500-E WS-C4503-E		3	2						SPE171500KF	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-26	WS-C3560V2-48TS-E		2						Bldg_2203A_Floor_0001_Room_0001_Rack_0001_	FD01529X1WQ	NCR QUAN Nodes	NCR	QUAN
	WS-C4503-E		3						Bldg_2204_Floor_0001_Room_114_Rack_0001_		-	NCR NCR	QUAN
QUAN-U06-AS-24	WS-C4503-E WS-C4506-E		2	,					Bldg_2204_Floor_Basement_Room_B17_Rack_0001_	FXS1735Q2AF	NCR QUAN Nodes		
QUAN-U06-AS-16				3					Bldg_2207_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3WH	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-15	WS-C3560V2-48TS-E		<u> </u>						Bldg_2207_Floor_0002_Room_0002_Rack_0002_	FDO1529X1XU	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-14	WS-C4506-E			3					Bldg_2207_Floor_000B_Room_B05_Rack_0001_	FOX1338GZZE	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-34	WS-C4503-E		2						Bldg_2208_Floor_1_Room_Telco1_Rack_1_	FXS1733Q0HZ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-31	WS-C4506-E		1	3					Bldg_2209T_Floor_1_Room_Telco1_Rack_1_	SPE1728024H	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-29	WS-C4506-E			3					Bldg_2210_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-30	WS-C4506-E		ļ	3					Bldg_2210_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3WW	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-19	WS-C3560V2-24TS-S	1		1	<u> </u>	1			Bldg_2247_Floor_0001_Room_0001_Rack_0001_	FD01438X02R	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-21	WS-C3560V2-24TS-S	1		1		<b> </b>			Bldg_2248_Floor_0001_Room_0001_Rack_0001_	FD01437X02Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-33	WS-C3560V2-24TS-S	1		1		<b> </b>			Bldg_2249_Floor_0001_Room_0001_Rack_0001_	FDO1437V12W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-72	WS-C4506-E		1 3	3					Bldg_2300_Floor_1_Room_Telco1_Rack_1_	FXS1732Q3XD	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-71	WS-C4506-E		3	3		<b> </b>			Bldg_2300A_Floor_1_Room_Telco1_Rack_1_	FXS1732Q0DN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-73	WS-C4506-E		1 3	3		<b> </b>			Bldg_2300B_Floor_1_Room_Telco1_Rack_1_	SPE173000C6	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-10	WS-C3560V2-24TS-S	1		-					Bldg_2321_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-64	WS-C3560V2-24TS-S	1		-		<b> </b>			Bldg_23402_Floor_1_Room_1_Rack_1	FDO1645Y13A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-41	WS-C3560V2-24TS-S	1				1			Bldg_24004_Floor_1_Room_Telco_Rack_1_	FDO1438X01H	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-58		4.1							Bldg_24005_Floor_1_Room_0001_Rack_1_	FDO1437X3GR	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-24TS-S	1	†		i I			4	Bldg_24006_Floor_0001_Room_telco10_Rack_0001_	FDO1437V0YJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-04	WS-C3560V2-24TS-S	1					+						
QUAN-U07-AS-75	WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1							Bldg_24008_Floor_1_Room_0001_Rack_1_	FDO1437X3GZ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E	1 1 1	3	3				4	Bldg_24009_Floor_0001_Room_0152_Rack_0001_	FDO1437X3GZ FXS1732Q3WY	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S	1 1 1	3	3				4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1	FDO1437X3GZ FXS1732Q3WY FDO1633X18D	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR	QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S	1 1 1	3	3				4	Bldg_24009_Floor_0001_Room_0152_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0	NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3				4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S	1 1 1 1 1 1 1	3	3				4 4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001 Bidg_24015_Floor_1_Room_Telco1_Rack_1 Bidg_24017_Floor_0001_Room_telco1_Rack_0001 Bidg_24018_Floor_0001_Room_0001_Rack_0001 Bidg_24114_Floor_0001_Room_0000_Rack_0000	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1	3	3				4 4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1_ Bidg_24017_Floor_0001_Room_telco1_Rack_0001_ Bidg_24018_Floor_0001_Room_0001_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3				4 4 4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001 Bidg_24015_Floor_1_Room_Telco1_Rack_1 Bidg_24017_Floor_0001_Room_telco1_Rack_0001 Bidg_24018_Floor_0001_Room_0001_Rack_0001 Bidg_24114_Floor_0001_Room_0000_Rack_0000	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS	NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1	3	3				4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_Office_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H	NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3					4 4 4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_0ffice_Rack_0001 Bldg_24144_Floor_0001_Room_0001_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U	NCR QUAN Nodes	NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1		3 3 3 3 3 5 5				4 4 4 4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_0ffice_Rack_0001 Bldg_24144_Floor_0001_Room_0001_Rack_0001 Bldg_24157_Floor_0001_Room_Telco1_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK	NCR QUAN Nodes	NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-27 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30 QUAN-U07-AS-30	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				4 4 4 4 4 4 4 4 4 2	Bidg 24009_Floor_0001_Room_0152_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C	NCR QUAN Nodes	NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-30 QUAN-U07-AS-30 QUAN-U07-AS-31 QUAN-U07-AS-31	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2	Bidg 24009_Floor_0001_Room_0152_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085	NCR QUAN Nodes	NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-01 QUAN-U07-AS-01 QUAN-U07-AS-30 QUAN-U07-AS-30 QUAN-U07-AS-31 QUAN-U07-AS-31 QUAN-U07-AS-31	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C4560-E WS-C4506-E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2 2	Bidg 24009 Floor 0001 Room 0152 Rack 0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085 FXS1647Q04E	NCR QUAN Nodes	NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30 QUAN-U07-AS-34 QUAN-U07-AS-31 QUAN-U07-AS-35 QUAN-U07-AS-35 QUAN-U07-AS-35	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2 2 4	Bidg 24009 Floor 0001 Room 0152 Rack 0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085 FXS1647Q04E FD01436X3KV	NCR QUAN Nodes	NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN

QUAN-U07-AS-48	WS-C3560V2-48TS-S		1					4	Bldg_24193_Floor_1_Rm_Telco1_Rack_0001_	FDO1633X19T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-26	WS-C3560V2-24TS-S	1	L					4	Bldg_24193A_Floor_1_Room_Telco 1_Rack_1_	FDO1645Y19A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-43	WS-C3560V2-48TS-S		1					4	Bldg_24194_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X19F	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-03	WS-C3560V2-24TS-S	1	L					4	4 Bldg_24195_Floor_0001_Room_0001_Rack_0001_	FDO1645Y199	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-36	WS-C3560V2-24TS-S	1	L					4	4 Bldg_24196_Floor_1_Room_Telco1_Rack_1_	FDO1437V28G	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-51	WS-C3560V2-24TS-S	1	L					4	Bldg_24197_Floor_0001_Room_telco1_Rack_0001_	FDO1437X3DK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-79	WS-C3560V2-48TS-E		1					4	4 bldg_24200_Floor_1_Room_0149_Rack_0001	FDO1529X1X6	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-08	WS-C4506-E			3				4	4 Bldg_24202_Floor_1_Room_143_Rack_1_	FXS1731Q4AV	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-38	WS-C3560V2-24TS-S	1	L					4	4 Bldg 24203 Floor 0001 Room Telco1 Rack 0001	FDO1645Y12V	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DR-01	WS-C6506-E						1		Bldg 24204 Floor 0001 Room Telco1 Rack 0003-Row-0004	SAL172369MY	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DR-02	WS-C6506-E						1		Bldg 24204 Floor 0001 Room Telco1 Rack 0003-Row-0004	SAL1718474L	NCR QUAN Nodes	NCR	QUAN
DR	110 00000						1		Bldg 26100				
DR							1		Bldg 26100				
QUAN-U07-AS-61	WS-C4506-E			3			-		4 Bldg 26100 Floor 0001 Room Telco1 Rack 0001	SPE173000D1	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-62	WS-C3750X-24T-S	1		3					2 Bldg 26100 Floor 1 Room RWC1 Rack 1	FDO1746Z0JL	NCR QUAN Nodes	NCR	QUAN
	WS-C3750X-24T-S	-									i i		QUAN
QUAN-U07-AS-63			-						2 Bldg_26100_Floor_1_Room_RWC2_Rack_1_	FD01745P23K	NCR QUAN Nodes	NCR	
QUAN-U07-AS-71	WS-C3560V2-24TS-S	1	L						Bldg_26101_Floor_0001_Room_0000_Rack_0001	FDO1710Y0N2	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-68	WS-C3750X-24T-S	1	L L						Bldg_26133_Floor_1_Room_Telco1_Rack_1_	FDO1746H070	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-70	WS-C3560V2-24TS-S	1	l l						Bldg_26143_Floor_1_Room_Telco1_Rack_1_	FDO1437X3DV	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-69	WS-C3560V2-24TS-S	1	l l					4	Bldg_26144_Floor_1_Room_Telco1_Rack_1_	FDO1438X05A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-65	WS-C3750X-24T-S	1	<u> </u>						Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746H0ME	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-66	WS-C3750X-24T-S	1	L .					2	2 Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746P0Y9	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-67	WS-C3750X-24T-S	1						4	4 Bldg_2650_Floor_1_Room_1_Rack_1	FDO1746H0MK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-19	WS-C3560V2-24TS-S	1						4	Bldg_27001_Floor_0001_Room_0001_Rack_0001_	FDO1437V0W4	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-15	WS-C3560V2-24TS-S	1	1					4	4 Bldg_27007_Floor_0001_Room_0001_Rack_0001_	FDO1438X03L	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-52	WS-C3560G-24TS-S	1	L					4	4 Bldg_27028T_Floor_0001_Room_Telco1_Rack_01_	FOC1623V0TW	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-18	WS-C3560V2-24TS-S	1	ı İ						Bldg_27046_Floor_0001_Room_0001_Rack_0001_	FDO1437V0ZB	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-25	WS-C3560V2-24TS-S	1	ı			1			4 Bldg 27067 Floor 0001 Room 0001 Rack 0001	FDO1438X02T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-29	WS-C3560V2-24TS-S	1	1						4 Bldg 27200 Floor 1 Room Telco1 Rack 1	FDO1437X380	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-22	WS-C3560V2-24TS-S	1							4 Bldg 27210 Floor 0001 Room 604 Rack 0001	FDO1437V0YM	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-21	WS-C4506-E	-		3					4 Bldg 27211 Floor 0001 Room S4 Rack 0001	SPE173000B9	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-24	WS-C3560V2-24TS-S	1		The state of the s					# Bldg 27231 Floor 0001 Room Telco1 Rack 0001	FDO1437X015	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-20	WS-C3560V2-48TS-S	<del>-</del>	1						# Bldg 27241 Floor 0001 Rm Telco1 Rack 0001	FD01437X013	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-48TS-E		1										QUAN
QUAN-U07-AS-39			1						1 Bldg_27250_Floor_0001_Rm_Telco1_Rack_0001_	FD01529X1XH	NCR QUAN Nodes	NCR	
QUAN-U07-AS-45	WS-C3560V2-24TS-S	1							2 Bldg_27250_Floor_0001_Room_telco1_Rack_0001_	FDO1437V22T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-46	WS-C3560V2-24TS-S	1	l l						Bldg_27251_Floor_0001_Room_0001_Rack_0001_	FDO1437V0X3	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-23	WS-C3560V2-24TS-S	1	4						4 Bldg_27270_Floor_0001_Room_0001_Rack_0001_	FDO1437V272	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-32	WS-C3560V2-48TS-E		1						4 Bldg_27275_Floor_2_Room_206_Rack_2_	FDO1528X0CG	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-12	WS-C3560V2-48TS-S		1						4 Bldg_27277_Floor_2_Room_206_Rack_2_	FDO1633X1AD	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-40	WS-C3560V2-24TS-S	1	L					4	Bldg_27279_Floor_0001_Room_telco10_Rack_0001_	FDO1438X036	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-17	WS-C4506-E			3					4 Bldg_27281_Floor_0001_Rm_Telco1_Rack_0001_	FXS1732Q3EE	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-14	WS-C6506-E			3				4	4 Bldg_27282_Floor_0001_Room_0001_Rack_0001_	SAL172369MS	NCR QUAN Nodes	NCR	QUAN
DR							1		Bldg_27282				
DR							1		Bldg_27282				
QUAN-U07-AS-27	WS-C3560V2-48TS-E		1					4	4 Bldg_27290TX_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X1P5	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-13	WS-C3560V2-24TS-S	1	L					4	4 Bldg_27400_Floor_0001_Room_0001_Rack_0001_	FDO1437X356	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-56	WS-C4506-E			3				4	4 Bldg_27402_Floor_0001_Room_0001_Rack_0008	FOX1614GXY4	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-57	WS-C4506-E			3				2	2 Bldg 27402 Floor 0001 Room 0001 Rack 0008	SPE154901XJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-55	WS-C3560V2-48TS-S		1					2	2 Bldg_27402_Floor_0001_Room_Telco1_Rack_0001	FDO1633X1AY	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-05	WS-C3850-48U				6				4 BLDG 2741 FLR 02 RM 209 RN2 U30	FCW1951D0BJ,FCW1951C0EY	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U07-AS-54	WS-C3560V2-24TS-S	De-Scope 3	1					De-Scope 4	Bldg_27410_Floor_0001_Room_135_Rack_0001_	FDO1437V12M	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-01	WS-C3850-48U				De-Scope 7			De-Scope 2	BLDG_27410_FLR_01_RM_129_RN2_U12	FOC1951X0S4,FOC1951U0R1,	,.	MCEN	INS
QUAN-U09-AS-06	WS-C3850-48U		De-Scope 1						BLDG_27410_FLR_01_RM_135_R1_U39	FCW1951D10R	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U09-AS-03	WS-C3850-48U				De-Scope 7				BLDG_27410_FLR_01_RM_141_RN3_U26B	FOC1938X1K7,FCW1941C01R		MCEN	INS
QUAN-U09-AS-02	WS-C3850-48U				De-Scope 6				BLDG_27410_FLR_01_RM_141_RN3_0200 BLDG_27410_FLR_01_RM_145_RACK_RN1_U17	FOC1951U0QV,FOC1951U0G4		MCEN	INS
QUAN-U09-AS-02 QUAN-U05-AS-02	WS-C3850-480 WS-C3560V2-24TS-S	-			<del>De stope 0</del>	1	1			FDO1645Y18M	NCR QUAN Nodes	NCR	QUAN
		+	+	<del>                                     </del>	+	+	1		1 Bldg 28000 Floor 1 Room Telco 1 Rack 1		,.		
QUAN-U05-AS-25	WS-C3560V2-24TS-S	1 1	+			+			Bldg_28009_Floor_1_Room_Telco1_Rack_1_	FD01645Y19F	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-30	WS-C3560V2-24TS-S	1 1	1		<del></del>	+			Bldg_3015_Floor_0001_Room_0001_Rack_0001_	FD01645Y19U	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-31	WS-C3560V2-24TS-S	1	4		<del></del>	-	1		Bldg_3015A_Floor_0001_Room_0001_Rack_0001_	FDO1437X00W	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-55	WS-C3560V2-48TS-S		1			1			Bldg_3017_Floor_1_Room_Telco1_Rack_1_	FDO1738Y2P1	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-52	WS-C3560V2-48TS-S		1						4 Bldg_3019_Floor_0001_Room_Telco1_Rack_0001	FDO1633X19S	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-30	WS-C4506-E			3					Bldg_3025_Floor_0001_Rm_Telco1_Rack_0001_	SPE1728024S	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-13	WS-C3560V2-24TS-S	1	4						Bldg_3032_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3JT	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-24	WS-C3560V2-24TS-S	1	l I					4	4 Bldg_3045_Floor_0001_Room_0001_Rack_0001_	FDO1437X02W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-22	WS-C3560V2-48TS-S		1					4	4 Bldg_3049_Floor_0001_Room_#0001_Rack_0001_	FDO1709Y1TR	NCR QUAN Nodes	NCR	QUAN
Q07.11 000 7.15 EE	WS-C3560V2-24TS-S	1						4	Bldg_3065_Floor_1_Room_Telco1_Rack_1_	FDO1437V0XT	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11	VV3 C3300 VZ Z413 3	1	L T					4	4 Bldg_3076_Floor_0001_Room_0001_Rack_0001_	FDO1437V231	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-24TS-S								4 Bldg_3077_Floor_0001_Room_0001_Rack_0001_	FDO1645Y1AE	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11		1	L I										
QUAN-U02-AS-11 QUAN-U03-AS-44	WS-C3560V2-24TS-S	1		2				2	2 Bldg_3077_Floor_0002_Room_LAN1_Rack_0001_	FXS1733Q0HG	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37	WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1	L	2 3						•	i i		QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E	1	1	2 3				4	4 Bldg_3078_Floor_0001_Room_115_Rack_0001_	FXS1732Q0DL	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S	1	1	2 3				4	Bldg 3078_Floor_0001_Room_115_Rack_0001_ Bldg 3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR	QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1	2 3				4 2 2	Bldg_3078_Floor_0001_Room_115_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2 FDO1431Z0YM	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09 QUAN-U03-AS-18	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1 1	2 3				2 2 2	4 Bldg 3078 Floor 0001 Room 115 Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001	FXS1732Q0DL FD01431Z0Z2 FD01431Z0YM FD01431Z0ZJ	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1 1	2 3				2 2 2 2 2	Bldg_3078_Floor_0001_Room_115_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2 FDO1431Z0YM	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN

1988   1985													
Description   Commonwealth   Commo	QUAN-U03-AS-35	WS-C3560V2-48TS-S	:	1				4	Bldg_3081T_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X19W	NCR QUAN Nodes	NCR	QUAN
Committed   Comm	QUAN-U03-AS-39	WS-C3560V2-24TS-S	1					4	Bldg_3081T2_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RQ	NCR QUAN Nodes	NCR	QUAN
1982   1982	QUAN-U02-AS-25	WS-C3560V2-48TS-E		1				4	Bldg_3083_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WT	NCR QUAN Nodes	NCR	QUAN
	QUAN-U02-AS-27	WS-C4503-E		2				4	Bldg 3083A Floor 1 Room 102 Rack 1	FXS1733Q0HE	NCR QUAN Nodes	NCR	QUAN
Section   Company   Comp		WS-C4506-E		3					<del></del>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	NCR	
				3					102-1-12				
Dec   Control	A		1	†	1				<del></del>	· · · · · · · · · · · · · · · · · · ·			
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Depart of the Company   Page			1	<del>                                     </del>					<del></del>				
Dec   1997   1			1										
1	QUAN-U03-AS-20	WS-C4503-E		2				4	Bldg_3094_Floor_0001_Room_Telco1_Rack_0001_	FXS1733Q0J8	NCR QUAN Nodes	NCR	QUAN
48   19   49   49   49   49   49   49   49	QUAN-U03-AS-15	WS-C3560V2-48TS-S		1				4	Bldg_3094T_Floor_1_Room_Telco 1_Rack_1_	FDO1633X1A9	NCR QUAN Nodes	NCR	QUAN
Description   Company	QUAN-U04-AS-45	WS-C3560V2-24TS-S	1					4	Bldg_3095_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V0XF	NCR QUAN Nodes	NCR	QUAN
Description   Proceedings	QUAN-U04-AS-03	WS-C4503-E		2				4	Bldg 3097 Floor 0001 Room Telco1 Rack 0001	SPE171500L6	NCR QUAN Nodes	NCR	QUAN
Description   Proceedings	OUAN-U04-AS-14	WS-C3560G-24TS-S	1					4	Bldg 3098 Floor 0001 Room 105 BreakFix	FOC1623VOUF	NCR OUAN Nodes	NCR	OUAN
Control   Cont				3					<del></del>				
DAMA SAS   10   CARRESTON   1				1 3	1				<del></del>		,.		
Math No. 6, 2   10   10   10   10   10   10   10			1						<del></del>	· · · · · · · · · · · · · · · · · · ·			
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Description   Company			1						<del></del>		· · · · · · · · · · · · · · · · · · ·		
DAY OF ALL   DO GROSSO 419   1			1					2	Bldg_3098_Floor_1_Room_Server		· · · · · · · · · · · · · · · · · · ·		
DAY AD SECTION   CONTROL	QUAN-U04-AS-01	WS-C3560V2-24TS-S	1					4	Bldg_3099_Floor_01_Room_Telco_01_Rack_01_	FDO1437X02G	NCR QUAN Nodes	NCR	QUAN
Date   Ball A	QUAN-U04-AS-11	WS-C3560V2-48TS-S	:	1				4	Bldg_3100_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X1AZ	NCR QUAN Nodes	NCR	QUAN
Section   Control   Cont	QUAN-U04-AS-02	WS-C3560V2-24TS-S	1					4	Bldg_3101_Floor_1_Room_Telco1_Rack_1_	FDO1710Y0PC	NCR QUAN Nodes	NCR	QUAN
CHARLESSON   NC   COMMISSION	QUAN-U03-AS-07	WS-C3560V2-24TS-S	1						<del></del>	FDO1437V0XY	NCR QUAN Nodes	NCR	QUAN
DEMAND COLOR   DEMA			1	1 3	s <b>i</b>								
CALAN DE AL ST.   CALAN DE A			1	<del>                                     </del>	<b>†</b>	<del>                                     </del>			<del></del>				
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CRAPA   19   CRA			1						<del></del>		,.		
Communication   Communicatio				<u> </u>		+							
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CAMA DIA 64 99   WG CASON E   9   9   1   1   1   1   1   1   1   1	QUAN-U02-AS-35	WS-C3560V2-24TS-S	1					4	Bldg_3232_Floor_1_Room_Telco_1_Rack_0001_	FDO1645Y14W	NCR QUAN Nodes	NCR	QUAN
Part   Part	QUAN-U02-AS-17	WS-C3560V2-24TS-S	1					4	Bldg_3240_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X38R	NCR QUAN Nodes	NCR	QUAN
MANUSHINESS   M. CREEKE   2	QUAN-U04-AS-39	WS-C4506-E		3	3			4	Bldg_3250_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024R	NCR QUAN Nodes	NCR	QUAN
MANUSHINESS   M. CREEKE   2	QUAN-U04-AS-38	WS-C4506-E		3	si			2	Bldg 3250 Floor Basement Room CommCtr Rack 0001	FXS1732Q416	NCR QUAN Nodes	NCR	QUAN
DAM-199-5-5-22   NF-CES-0-5-1				2									
DAM-HIGH-SP-21   DAM-HIGH-SP-22   DAM-				<del>                                     </del>						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
COLUMN 1995-ACC   COLUMN 199			1		1				<del></del>				
2   Big 1925   Free 7000   Rem   CREAT ROCK   CREAT ROC			1	<del>                                     </del>									
Company   Comp				3	5			Δ.	BIDD 3255 FIOOR OOOT ROOM OOOT RACK OOOT	ISPE1730008W	NCR QUAN Nodes	NCR	QUAN
March 1996   Mar						1			0				
CAMA USA 6-01   VS - CARGO F   VS			1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_	FOC1426W0P4			INS
DAM-1998-S01   SP-6505FE   3   1   1   1   1   1   1   1   1   1			1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53	MCEN INS QUAN Nodes		
CAMPANIPO-S-GSE   S-CESSOR-E   3   2   108_23255   100_0021, Room, ServerFarm, Risk , 0041   54,123,00478   MCRN NO GLAN No-Roe   MCRN NO GLAN NO GL	QUAN-U99-DS-01	WS-C6506-E WS-C6506-E	1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53	MCEN INS QUAN Nodes	MCEN MCEN	INS INS
COM-M-1994-SOR   WS-CESSOR	QUAN-U99-DS-01 QUAN-U99-DS-02	WS-C6506-E WS-C6506-E	1	3				2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE	MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN	
CQUANTIPS AGE	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01	WS-C6506-E WS-C4506-E WS-C4506-E	1	3 3 3	<b>3</b>			2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR	INS INS QUAN
COUNT-1099-AS-07   VS-C5500-E   S   S   S   S   S   S   S   S   S	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01	WS-C6506-E WS-C4506-E WS-C4506-E	1	3 3 3				2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN	INS INS QUAN INS
2   Bigg 2355   Bior   2003   Section   Sect	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E	1	3 3 3 3 3				2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN	INS UNS QUAN INS INS
CAMANUPA-65-06   WS-65696-6   S   S   S   S   S   S   S   S   S	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E	1	3 3 3 3 3	5 5 5			2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN MCEN	INS QUAN INS INS INS
DUAN-UPI-AS-09   WS-C4509E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E	1	3 3 3 3	5			2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS
QUAN-UPS-AS-06   WS-C6506-F	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E	1	3 3 3 3	5			2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS
QUAN-U99-AS-22   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E	1	3 3 3 3	5 5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005 Bldg_3255_Floor_0001_Room_0129_Rack_0005 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0010_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7F SAL172264PL	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS
QUAN-199-8-623   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 106 Reft, 155   SAL1639MFS   MCEN INS QUAN Nodes   MCEN   INS QUAN-199-8-640   W5-C6506-E   3   1   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-199-8-640   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-104-610   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-104-610   W5-C6506-E   3   3   1   2   36g, 3255 Floor 1, Rom 5erverFarm Red, Row5   SAL1633MFT   MCEQ INN Nodes   MCEN   NS QUAN-104-610   W5-C6506-E   W	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E	1	3 3 3 3 3 3 3 3	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0100_ Bldg_3255_Floor_0002_Room_Telco1_Rack_0001_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF75 SAL172264PL FXS1732Q3W3	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS UNS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-199-A5-03   WS-C5506-E     3     2   882,3255, Floor 1, Room 179, Rack 1,2   SAL1633RRTF   MCRN NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN NODEs   MCRN   NS QUAN NODEs   MCRN   NS QUAN NODEs   MCRN   M	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U94-AS-05 QUAN-U04-AS-06	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C6508-E WS-C6508-E	1	3 3 3 3 3 3 3 3 2 2				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRm Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS UVAN INS INS INS INS INS INS INS INS INS IN
QUAN-109-AS-04   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E		3 3 3 3 3 3 3 2				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0040  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0001 Room ServerRack 0001  Bldg 3255 Floor 0001 Room ServerRack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 01 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-109-AS-04   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E		3 3 3 3 3 3 3 2 2	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-UGA-BR-02   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4508-E		3 3 3 3 3 3 2 2	5 5 5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1630HP58	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-LUG-AR-02   WS-C5506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-03	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E		33 33 33 33 33 33 33 33 33 33 33 33 33	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255_Floor_0001_Room_0001_Rack_0003_ Bldg 3255_Floor_0001_Room_0129_Rack_0005_ Bldg 3255_Floor_0001_Room_0129_Rack_0005_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_00010_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_01001_ Bldg 3255_Floor_0001_Room_ServerRack_0010_ Bldg 3255_Floor_001_Room_ServerRack_0010_ Bldg 3255_Floor_001_Room_ServerRack_0010_ Bldg 3255_Floor_001_Room_ServerRack_163_ Bldg 3255_Floor_1_Room_106_Rack_155_ Bldg 3255_Floor_1_Room_106_Rack_155_ Bldg 3255_Floor_1_Room_179_Rack_12_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1630HP58 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U95-A5-07   WS-C4506-E   De-Scope 3   Secope 4   Secope 5   Secope 6	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-03 QUAN-U99-AS-03	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4503-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E		3 3 3 3 3 3 2 2			1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 00041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0100 Bldg 3255 Floor 0001 Room ServerRack 0001 Bldg 3255 Floor 1000 Room ServerRack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12	FOC1426W0P4  SAL1630HP53  SAL1633KRTE  FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
DUAN-UDS-AS-18   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telcol Rack 00001   SPE1730000FC   NCR QUAN Nodes   NCR   QUAN-UDS-AS-506   MS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telcol Rack 0001   SPE173000FC   NCR QUAN Nodes   NCR   QUAN-UDS-AS-506   MS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13384AE1   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-514   NS-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4503-E WS-C4503-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0101  Bldg 3255 Floor 0001 Room ServerRa Rack 0101  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12	FOC1426W0P4  SAL1630HP53  SAL1633KRTE  FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7F  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-19   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telco1 Rack 0001   SPE173000EC   NCR QUAN Nodes   NCR   QUAN U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0002 Rm 26st Rack 0001   FON1338HAE]   NCR QUAN Nodes   NCR   QUAN U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 36vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-07   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 36vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-01   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 56vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 56vet Rack 0001   FON1338GWZ   NCR QUAN Nodes   NCR   QUAN U05-A5-06   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-09   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U90-DR-01 QUAN-U04-DR-02	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4503-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 1 Room 166 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-UOS-AS-06   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0002 Rm 2East Rack 0001   FOX13386HAE]   NCR QUAN Nodes   NCR QUAN Nodes   QUAN-UOS-AS-07   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3F Rack 0001   FOX1338GVXD   NCR QUAN Nodes   NCR	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4503-E  WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerRack_0001_ Bldg_3255_Floor_0001_Room_ServerRack_0001_ Bldg_3255_Floor_1_Room_106_Rack_155_ Bldg_3255_Floor_1_Room_106_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_FlR_01_RM_102_RN3_U18	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0003 Rm 3West Rack 0001   FOX1338GWXD   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-01   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Rm 5F Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-10   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Rom 5F Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm 4West Rack 0001   FOX1338GZY8   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm 4West Rack 0001   FOX1338GXY8   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GXXZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GXXZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 4 Rm 45st Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 4 Rm 45st Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   NCR QUA	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C4506-E  WS-C6506-E			5		1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010-  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF75 SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-07   W5-C4506-E   De-Scope 2   Bidg 3280 Floor 0003 Rm SF Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-10   W5-C4503-E   De-Scope 2   Bidg 3280 Floor 0003 Room SF Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-04   W5-C4506-E   De-Scope 3   De-Scope 3   Bidg 3280 Floor 0003 Rm SF Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-05   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm SF West Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-05   W5-C4506-E   De-Scope 2   Bidg 3280 Floor 0005 Rm SF West Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-06   W5-C4503-E   De-Scope 2   Bidg 3280 Floor 1West Room Telcol Rack 0002   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-09   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm AEast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm AEast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm SFast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 4   Bidg 3300 Floor 0001 Rm 119 Rack 0001   SPE1728024Q   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-01   W5-C4506-E   DE-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 119 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-01   W5-C4506-E   DE-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-12   W5-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C1   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-15   W5-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C1   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-15   W5-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 2 Rm 2428 Rack 0001   SPE1730000C1   NCR QUAN Nodes   NCR   QUAN QUAN-	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E		De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-10   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Room 5F Rack 0001   FXS1735Q2EY   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm_dwest Rack 0001   FOX1338G2W3   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm_Swest Rack 0001   FOX1338G2W3   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 1West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN U05-A5-06   NCR   QUAN V05-A5-06   NCR   QUAN V05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN U05-A5-12   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 001 Rm_119 Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN U05-A5-12   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3280 Floor 001 Rm_119 Rack 0001   SPE1728024Q   NCR QUAN Nodes   NCR   QUAN U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730005T   NCR QUAN Nodes   NCR   QUAN U05-NCB   De-Scope 5   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   DE-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 2   Bldg 3300 Floor 2 Rm 208 Rack 0001   SPE1730009U   NCR QUAN Nodes   NCR   QUAN U05-NCB   QUAN U05-NCB   DE	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRam Rack 0001  Bldg 3255 Floor 1 Room 160 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room 102 RN3 U18  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-10   WS-C4508-E   De-Scope 2   Bldg 3280 Floor 0003 Rom SF Rack 0001   FXS173502FY   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-04   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm SWest Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm SWest Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-01   WS-C4508-E   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-09   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-09   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 0001 Rm 119 Rack 0001   FXS1336G3LZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-12   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 0001 Rm 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Rm 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-13   WS-C4506-E   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRam Rack 0001  Bldg 3255 Floor 1 Room 160 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room 102 RN3 U18  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-04         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 0004 Rm 4West Rack 0001         FOX1338G2Y8         NCR QUAN Nodes         NCR         QUAN QUAN-U05-A5-05         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 0005 Rm 5West Rack 0001         FOX1338GWXZ         NCR QUAN Nodes         NCR         QUAN QUAN-U05-A5-01         WS-C4506-E         De-Scope 2         Bldg 3280 Floor 1West Room 1Febra Rack 0001         FOX1338GWXZ         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0100  Bldg 3255 Floor 0001 Room ServerRam Rack 0000  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3250 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GWXZ   NCR QUAN Nodes   NCR   QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg_3255_Floor_0001_Room_0001_Rack_0003_ Bidg_3255_Floor_0001_Room_0129_Rack_0005 Bidg_3255_Floor_0001_Room_0129_Rack_0005 Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_Bidg_3255_Floor_0001_Room_ServerFarm_Rack_00041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_163_ Bidg_3255_Floor_1_Room_106_Rack_155_ Bidg_3255_Floor_1_Room_106_Rack_155_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_0001_Room_telco1_Rack_0001_ Bidg_3280_Floor_0001_Room_telco1_Rack_0001_ Bidg_3280_Floor_0002_Rm_ZEast_Rack_0001_ Bidg_3280_Floor_0003_Rm_3West_Rack_0001_ Bidg_3280_Floor_0003_Rm_3West_Rack_0001_ Bidg_3280_Floor_0003_Rm_SF_Rack_0001_ Bidg_3280_Floor_0003_R	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP5A  SPE173000E  FOX1338HAEI  FOX1338HAEI  FOX1338GZZJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN INS QUAN Nodes MCEQUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-01         WS-C4503-E         De-Scope 2         Bidg 3280 Floor 1West Room Telco1 Rack 0002         FXS1733Q0SZ         NCR QUAN Nodes         NCR         QUAN QUAN-U05-AS-08           QUAN-U05-AS-08         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 4 Rm 4East Rack 0001         FOX1338G3LZ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-09           QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 0001 Rm 13P Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bidg 3300 Floor 0001 Rm 13P Rack 0001         SPE173002CQ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-14         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NCR QUAN Nodes         NCR </td <td>QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-07</td> <td>WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E</td> <td></td> <td>De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 2</td> <td></td> <td></td> <td>1 1</td> <td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 00041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0101  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0002 Rm ZEast Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001</td> <td>FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SMG1143NF7H  SMG1143NF75  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY</td> <td>MCEN INS QUAN Nodes MCEN UAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes</td> <td>MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN</td> <td>INS INS QUAN INS INS INS INS INS INS INS INS INS IN</td>	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 2			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  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Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SMG1143NF7H  SMG1143NF75  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY	MCEN INS QUAN Nodes MCEN UAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-08         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 4 Rm 4East Rack 0001         FOX1338G3LZ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-09           QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 5 Rm 5East Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NCR QUAN Nodes	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C6506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 1 Room 166 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 14  Bldg 3255 Floor 1 Room 179 Rack 14  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTG SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000D9 SPE173000CC FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY FOX1338GZZJ FXS1735Q2EY FOX1338GZY8	MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 5 Rm 5East Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bidg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-01           QUAN-U05-DR-01         WS-C6506-E         De-Scope 3         1         Bidg 3300 Floor 0001 Room 119 Rack 0001         SAL171265U5         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-02           QUAN-U05-AS-14         WS-C6506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 208 Rack 0001         SAL17265UP         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 216 Rack	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-01 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U95-AS-19 QUAN-U95-AS-06 QUAN-U95-AS-07 QUAN-U95-AS-07	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C6506-E  WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ FOX133KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000EC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZY8 FOX1338GYXZ	MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-01           QUAN-U05-DR-01         WS-C6506-E         De-Scope 3         1         Bldg 3300 Floor 0001 Room 119 Rack 0001         SAL171635U5         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-02           QUAN-U05-DR-02         WS-C6506-E         DE-Scope 3         1         Bldg 3300 Floor 0001 Room 119 Rack 0001         SAL172264NP         NCR QUAN Nodes         NCR         QUAN UAN U05-AS-14         WS-C4506-E         SPE173000F1         NCR QUAN Nodes         NCR         QUAN UAN U05-AS-15         WS-C4506-E         SPE173000F1         NCR QUAN Nodes         NCR         QUAN U05-AS-15         WS-C4506-E         SPE173000F1         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NCR QUAN Nodes         NCR         QUAN U05-AS-12         NCR QUAN Nodes         NCR         QUAN U05-AS-12         SPE1730009U         NCR QUAN Nodes         NCR         QUAN U05-AS-12         NCR QUAN Nodes         NCR         QUAN U05-AS-12         NCR QUAN Nodes	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-06 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room telco1 Rack 0001 Bldg 3280 Floor 0001 Room Telco1 Rack 0001 Bldg 3280 Floor 0002 Rm ZEast Rack 0001 Bldg 3280 Floor 0003 Rm SER Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338GTB FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GWXZ FXS1733Q0SZ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN QUAN Nodes	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0001 Bldg 3255 Floor 0001 Room ServerRm Rack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room Elecol Rack 0001 Bldg 3280 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001 Bldg 3280 Floor 1005 Rm 5West Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338HAEI FOX1338GWXD FOX1338GZZI FXS1735Q2EY FOX1338GWXZ FXS1733QOSZ FOX1338G3LZ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN QUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-DR-01         WS-C6506-E         SAL171635U5         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0000 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 0001 Room ServerRam Rack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room telco1 Rack 0001 Bldg 3280 Floor 0001 Room Telco1 Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001 Bldg 3280 Floor 5 Rm 5East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB FOX1338GTP SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338CTB FOX1338GVZD FOX1338GZZD FXS1735Q2EY FOX1338GYZB FOX1338GWZZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-DR-02         W5-C6506-E         SAL172264NP         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-01 QUAN-U95-AS-08 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3250 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room SF Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP5A  SPE173000D9  SPE173000D9  SPE173000D9  SPE173000EC FOX1338HAEI FOX1338GVXD FOX1338GZZI FXS1735Q2EY FOX1338GVXD FOX1338GXA SPE1728024Q	MCEN INS QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes NCE QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-14         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 216 Rack 0001         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U04-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3250 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room SF Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTI  SAL1630HP5A  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GVZEY FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7	MCEN INS QUAN Nodes MCEQUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-14         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 216 Rack 0001         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U04-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 00041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 163  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3255 Floor 1 Room ServerFarm Rack 0001  Bidg 3280 Floor 0001 Room telco1 Rack 0001  Bidg 3280 Floor 0001 Room telco1 Rack 0001  Bidg 3280 Floor 0002 Rm ZEast Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm SF Rack 0001  Bidg 3280 Floor 0003 Rm SF Rack 0001  Bidg 3280 Floor 0004 Rm 4West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 5 Rm 5East Rack 0001  Bidg 3280 Floor 5 Rm 5East Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTI  SAL1630HP5A  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GVZEY FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7	MCEN INS QUAN Nodes MCEQUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_216_Rack_0001_         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_242B_Rack_0001_         SPE1730009U         NCR QUAN Nodes         NCR         QUAN QUAN NODES	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-10 QUAN-U05-AS-09 QUAN-U05-AS-11 QUAN-U05-AS-09 QUAN-U05-AS-11	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0010  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRam Rack 0104  Bidg 3255 Floor 0001 Room ServerRam Rack 0104  Bidg 3255 Floor 0002 Room Telco1 Rack 0001  Bidg 3255 Floor 010 Room ServerRam Rack 163  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 21  Bidg 3255 Floor 1 Room 179 Rack 4Row5  BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5  BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3250 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0002 Rm 2East Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm SWest Rack 0001  Bidg 3280 Floor 0004 Rm 4West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 0006 Rm 4West Rack 0001  Bidg 3280 Floor 0007 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Room 119 Rack 0001  Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTG  SAL1633KRTJ  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9 SPE173000D9 SPE173000EC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZZJ FXS1733Q0SZ FOX1338G3LZ SPE173000C7 SAL171635U5	MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_242B_Rack_0001_         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-10 QUAN-U05-AS-06 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRar Rack 0001 Bidg 3255 Floor 0001 Room ServerRar Rack 0001 Bidg 3255 Floor 1 Room 166 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3250 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room 179 Rack 10 Bidg 3250 Floor 1 Room ServerFarm Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm ServerFarm Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0001 Rm 119 Rack 0001 Bidg 3300 Floor 0001 Rm 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DP SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GY8 FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7 SAL171635U5 SAL1712264NP	MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-06 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-11 QUAN-U05-AS-12 QUAN-U05-AS-13 QUAN-U05-AS-14	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRa Rack 0001 Bidg 3255 Floor 1 Room 16 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 0001 Bidg 3280 Floor 0001 Room telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0007 Rm 5East Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0002 Bidg 3280 Floor 0001 Rm 131 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTG SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DP SPE173000EC FOX1338HAEJ FOX1338GWZD FOX1338GZZJ FXS1735Q2EY FOX1338GZZI FXS1735Q2EY FOX1338G3KA SPE1728024Q SPE173000C7 SAL171635U5 SAL172264NP SPE173000F1	MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-17 WS-C4506-E De-Scope 3 De-Scope 2 Bldg 3300 Floor 3 Rm 312 Rack 0001 FXS1732Q3DT NCR QUAN Nodes NCR QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-24 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-11 QUAN-U05-AS-12 QUAN-U05-AS-13 QUAN-U05-AS-13 QUAN-U05-AS-14 QUAN-U05-AS-15	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0001 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4001 Bidg 3250 Floor 001 Room ServerFarm Rack 4001 Bidg 3280 Floor 0001 Room telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm 2East Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX133KRTB SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZZI FXS1735Q2EY FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1336G3LZ FOX1338G3LZ FOX1336G3LZ FOX1338G3LZ FOX133G3LZ FOX1338G3LZ	MCEN INS QUAN Nodes NCR QUAN Nodes MCEN QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes NCR QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN

QUAN-U05-AS-16	WS-C4506-E			De-Scope 3				De-Scope 2	Bldg 3300 Floor 3 Rm 322 Rack 0001	SPE173000BY	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-90	WS-C3560V2-24TS-S	1	1	Сосорс			<del>                                     </del>		Bldg_3313_Floor_01_Room_Teco#_Rack_1_	FDO1437V27K	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-28	WS-C3560V2-24TS-S	1	1	1			-		Bldg 3400 Floor 0001 Room Telco1 Rack 0001	FD01437V27K	NCR QUAN Nodes	NCR	QUAN
		1											
QUAN-U05-AS-29	WS-C3560V2-24TS-S	1							Bldg_3500_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X03R	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-14	WS-C4506-E			3				4	Bldg_5001_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3D9	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-13	WS-C4506-E			3				4	Bldg_5002_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024U	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-16	WS-C3560V2-24TS-S	1						4	Bldg_505_Floor_0001_Room_0002_Rack_0001_	FDO1437V11T	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-54	WS-C4503-E		2					4	Bldg_5170_Floor_1_Rm_Telco1_Rack_0001_	FXS1735Q2DD	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-52	WS-C3560V2-24TS-S	1						4	Bldg 5172 Floor 0001 Room 0001 Rack 0001	FDO1643Y2R8	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-27	WS-C3560V2-24TS-S	1							bldg 658 Floor 1 Room 0001 Rack 0001	FDO1437X02B	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-28	WS-C3560V2-24TS-S	1							bldg 660 Floor 1 Room 0001 Rack 0001	FDO1437V26X	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-19	WS-C3560V2-24TS-S	1							Bldg 69 Floor 0001 Room Telco1 Rack 0001	FD01437V13V		NCR	QUAN
		1							0		NCR QUAN Nodes		
QUAN-U08-AS-28	WS-C3560V2-24TS-S	1							Bldg_7_Floor_0001_Room_0001_Rack_0001_	FDO1437X35U	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-30	WS-C3560V2-48TS-E	1	1					4	Bldg_711A_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1X6	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-23	WS-C3560V2-24TS-S	1						4	Bldg_711C_Floor_Telco1_Room_0001_Rack_0001_	FDO1645Y198	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-22	WS-C3560V2-24TS-S	1						2	Bldg_711C_Floor_Telco1_Room_COMM_Rack_0001_	FDO1645Y1A8	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-12	WS-C3560V2-48TS-S	1	1					4	Bldg 715 Floor 0001 Room Telco1 Rack 0001	FDO1633X1B1	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-16	WS-C3560V2-24TS-S	1							Bldg B5-9 Floor 0001 Room 0001 Rack 0001	FDO1437X38P	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-GSAS-01	WS-C3850-48U			3					BLDG GREENSPRINGS FLR 01 RM 10 RN1 U9		951U0G3 MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-AS-05	WS-C3560V2-24TS-S	1							Bldg QTRS C Floor Basement Room Telco1 Rack 1	FDO1645Y190	NCR QUAN Nodes	NCR	QUAN
		1											
QUAN-U08-AS-55	WS-C3560V2-24TS-S	1	1	<del>                                     </del>				4	Bldg_QTRS1_Floor_BASEMENT_Room_0000_Rack_0001_	FDO1437X035	NCR QUAN Nodes	NCR	QUAN
DR			1					1	Russel Knox				
DR			1					1	Russel Knox				
			<u> </u>	<u> </u>	<u></u>	<u></u>							
	Total	121 52	2 50	237	10	6	0 0	18 950					
** Row #374 location	needs to be identified prior to	placing in-scope for thi	is effort. For now	we'll identify as a	"maybe" / Orange	e until post VSS						1	
	The second secon			l s ii identity us u	a,se , orange		<del> </del>						-
OLIAN 100 AC 01	WC 62750C 24TC 5111									FOC00F1V3VV	MCEN INS Legacy Nodes	NACEN	INC
QUAN-L00-AS-01	WS-C3750G-24TS-E1U									FOC0951Y3XY	5 /	MCEN	INS
	WS-C3750G-24TS-E1U									FOC1224Z19C	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-CB-01	WS-C3750G-48TS-E									FHG1413R0AZ	MCEN INS Legacy Nodes	MCEN	INS
QUAN-U09-GSAS-02	WS-C3850-48U									FOC1951U1LV	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-AS-02	ex4200-48t									BP0210344659	MCEN INS Legacy Nodes	MCEN	INS
QUAN-L00-AS-03	ex8208									CA1710100238	MCEN INS Legacy Nodes	MCEN	INS
QUAN-U99-AS-11a										FOC2120R35P	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-AS-11b	Nexus 3132QV							<del></del>		FOC2120R1DZ	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-DR-01	Nexus9000 C9332PQ									FDO21291CS0	MCEN INS QUAN Nodes	MCEN	
•													INS
QUAN-U99-DR-02	Nexus9000 C9332PQ									FDO21291CQK	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-OS-01	WS-C3750G-48TS-E									FHG1413R0B1	MCEN INS Legacy Nodes	MCEN	INS
QUAN-UDZ-IS-01	WS-C3850-48XS									FOC2035Z1HT	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UDZ-OS-01	WS-C3850-48XS									FOC2035Z1HX	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-04	WS-C4500X-32									JAE203400MW	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-DH-01	3745								Bldg_1999_Floor_0001_Rm_0001_Rack_0001_	FTX1012A398	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DH-02	3745								Bldg 1999 Floor 0001 Room MDF Rack 0001	FTX1110A2C0	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-CO-01	CISCO2921/K9		<del>                                     </del>						Bldg_2008_Floor_0002_Rm_ServerRoom_Rack_001	FTX1748AJ5X	NCR QUAN Nodes	NCR	QUAN
	CISCOZSZI/KS											NCN	
QUAN-U08-DP-03	888								Bldg_2046_Floor_0001_Rm_Telco1_Rack_0001_	FTX1642856Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-19	Nexus5548								Bldg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201NJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-24	Nexus5548								Bidg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201N9	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DP-12	888								Bldg_2100A_Floor_0001_Room_0001_Rack_0001_	FTX1642854U	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-11	888								Bldg_24101_Floor_0001_Room_Telco1_Rack_0001_	FTX1642855Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-13	888								Bldg_24162_Floor_1_Room_Telco1_Rack_1_	FTX1642856M	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DH-02	3745								Bldg_24203_Floor_0001_Room_Telco1_Rack_0001_	FTX1012A38X	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DH-01	3745								Bidg_24204_Floor_0001_Room_105_Rack_0006_	FTX1012A38Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-01	888								Bldg_27005_Floor_0001_Room_Telco1_Rack_0001_	FTX16428561	NCR QUAN Nodes	NCR	
							1			FTX1642856J	NCR QUAN Nodes		QUAN
QUAN-U07-AS-60	WS-C2960-8TC-S						1		Bldg_27028_Floor_1_Room_Telco1_Rack_1_	FOC1722Z2G4		NCR	QUAN
QUAN-U07-DP-03	CISCO2911/K9								Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FTX1644AKYW	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-ES-03	SM-ES2-24								Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FOC16403G1P	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-15	888								Bldg_27219_Floor_2_Room_219_Rack_1_	FTX1642854Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-02	CISCO2911/K9								Bldg_27263_Floor_0001_Room_0001_Rack_0001_	FTX1652A00M	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-ES-02	SM-ES2-24								Bldg_27263_Floor_0001_Room_Telco1_Rack_001_	FOC16507USN	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-04	CISCO2911/K9								BLDG_27410_FLR_01_RM_182_RN2_U30	FTX1644AKXN	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-AS-13	WS-C2960-8TC-S						1		Bldg_3084A_Floor_1_Room_Telco_Rack_1_	FOC1512V375	NCR QUAN Nodes	NCR	QUAN
							1			FOC1512V575 FOC1722Z2G0		NCR	
QUAN-U05-AS-27	WS-C2960-8TC-S						1		Bldg_3085B_Floor_1_Room_Telco1_Rack_1_		NCR QUAN Nodes		QUAN
QUAN-U00-IS-04	WS-C3560-24TS-S								Bldg_3255_Floor_0001_Room_179_Rack_0002_	FDO1239Z0XQ	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-SS-01	WS-C4503-E								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0002_	SPE1447006J	Test_Partition_Realm_Change	#VALUE!	
QUAN-UB1-CB-01	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1229GJFK	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-IS-02	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1045051Z	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U00-IR-01	Nexus9000 C9508 (8 Slot)								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FGE21252B1A	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U00-IR-02	Nexus9000 C9508 (8 Slot)								Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003	FGE21252B1W	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-03	WS-C3560-24TS-S								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FDO1236Y09Q	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-05	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FOX10450523	MCEN INS QUAN Nodes	_	
										IAE10420223		MCEN	INS
QUAN-U00-IS-03	WS-C4500X-32								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0016_	JAE1943032Y	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-IS-01	WS-C4503								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1244GDUX	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-02	WS-C4503								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1224GFZ4	MCEN INS QUAN Nodes	MCEN	INS

QUAN-UB1-OS-01	WS-C6506-E				Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	SAL1630HP4W	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-EO-01	WS-C6506-E				Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0112_	SAL13516P34	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U01-BI-01	ASR1002-X				BLDG_3255_RM_179_ROW_4_RACK_1	FOX1938G7PZ	MARFORRES CLIN Nodes	MARFORRES	CLJN
QUAN-UB1-OR-01	CISCO3945-CHASSIS				Building 3255, Room 179, Row 4, Rack 1, RU1	FTX1644AK5S	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U09-AS-08	WS-C3850-12XS					FCW1949F0Z4,FCW1949C17X	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-IR-01	ASR1004				MCEN-ES	FOX1352GKYQ	MCEN INS Legacy Nodes	MCEN	INS
QUAN-L00-IS-01	WS-C3750G-48TS-E				MCEN-ES	FHG1413R0BJ	MCEN INS Legacy Nodes	MCEN	INS

		OLT Q	UAN-U03-OL-01
BLDG	ONT	COUNT	ONT SW
3			
	709GP	1	ONT709GP.3.21.3
72			
	140C	1	ONT140.1.7.34
1775			
1000	728GP	3	ONT728GP.3.20.7
1999	140C	1	ONT140.1.7.34
2044	1400	1	ON1140.1.7.54
2044	728GP	54	ONT728GP.3.20.7
2076	72001	31	014172001.0.2017
	709GP	1	ONT709GP.3.21.3
2118			
	140C	1	ONT140.1.7.34
2200			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
2202			
	709GP	1	ONT709GP.3.21.3
2203			
	709GP	2	ONT709GP.3.21.3
2204	70000	1	ONT700CD 2 24 2
2207	709GP	1	ONT709GP.3.21.3
2207	709GP	1	ONT709GP.3.21.3
2208	709GP	1	ON1709GF.3.21.3
2200	709GP	1	ONT709GP.3.21.3
2209	70301		01170301.3.21.3
	709GP	1	ONT709GP.3.21.3
2210			
	709GP	1	ONT709GP.3.21.3
2247			
	709GP	1	ONT709GP.3.21.3
2248			
	709GP	1	ONT709GP.3.21.3
2249			
2224	709GP	1	ONT709GP.3.21.3
2301	72000	1	ONT720CD 2 20 7
3077	728GP	1	ONT728GP.3.20.7
3077	728GP	1	ONT728GP.3.20.7
3086	72001		01172001.3.20.7
3000	709GP	1	ONT709GP.3.21.3
3230			
	709GP	1	ONT709GP.3.21.3
3232			
	709GP	1	ONT709GP.3.21.3
3240			
	140C	1	ONT140.1.7.34
3259			
0.5	709GP	1	ONT709GP.3.21.3
3399			ONTEROOD A SA S
24204	709GP	1	ONT709GP.3.21.3
24204	70000		ONT700GD 2 21 2
27282	709GP	1	ONT709GP.3.21.3
21202	709GP	1	ONT709GP.3.21.3
28000	703GP	1	
	709GP	1	ONT709GP.3.21.3
28009	230,		
	709GP	1	ONT709GP.3.21.3
	•		

			UAN-U07-OL-01
LDG 999	ONT	COUNT	ONT SW
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4005	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4006			
4008	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4000	729GP	2	ONT729GP.3.20.7;ONT729_V005591
4009	729GP	3	ONT729GP.3.20.7;ONT729_V005591
4015	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4017	729GF	_	ON1729GF.3.20.7,ON1729_V003391
4018	729GP	2	ONT729GP.3.20.7;ONT729_V005591
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4142	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4144			_
4157	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4164	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4164	729GP	4	ONT729GP.3.20.7;ONT729_V005591
4180	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4191	72301	_	
4193	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	3	ONT729GP.3.20.7;ONT729_V005591
4194	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4195	720CD	1	ONT720CD 2 20 7:ONT720 V00FF01
4196	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4197	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4198	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4199	72000		
4200	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4204	729GP	1	ONT729GP.3.20.7;ONT729_V005591
.234	729GP	1	ONT729GP.3.20.7;ONT729_V005591
7130	729GP	3	ONT729GP.3.20.7;ONT729_V005591
7282			
7130C	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
OTAL		38	
OTAL		31	

		OLT Q	UAN-U08-OL-01				
BLDG	ONT	COUNT	ONT SW				
69							
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
122							
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
1304	720CD	1	ONT720CD 2 20 7:ONT720 1/00FF01				
1775	729GP		ONT729GP.3.20.7;ONT729_V005591				
	729GP	5	ONT729GP.3.20.7;ONT729_V005591				
1999			, =				
	140C	1	ONT140.1.7.34				
	140W	4	ONT140.1.7.34				
	729GP	3	ONT729GP.3.20.7;ONT729_V005591				
2033	720.00	1	ONIT 2000 2 20 7 ONIT 20 MOSE 504				
2044	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
2044	729GP	17	ONT729GP.3.20.7;ONT729_V005591				
2076	72301	17	014172501.5.20.7,0141725_4005551				
	709GP	1	ONT709GP.3.21.3				
2117							
	709GP	1	ONT709GP.3.21.3				
2187							
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
2200	700.00	1	ONT700CD 2 24 2				
2301	709GP	1	ONT709GP.3.21.3				
2301	729GP	34	ONT729GP.3.20.7;ONT729_V005591				
3065	72301	34	ON1723G1 .5.20.7,ON1725_V003331				
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3070			_				
	729GP	4	ONT729GP.3.20.7;ONT729_V005591				
3186							
2202	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3202	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3228	729GF		ON1729GF.3.20.7,ON1729_V003391				
	709GP	1	ONT709GP.3.21.3				
3229							
	728GP	1	ONT728GP.3.20.7				
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3230	-06-		017700000000000000000000000000000000000				
2240	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3240	729GP	1	ONT729GP.3.20.7;ONT729 V005591				
3255	72308						
	709GP	1	ONT709GP.3.21.3				
	729GP	2	ONT729GP.3.20.7;ONT729_V005591				
3259							
	709GP	3	ONT709GP.3.21.3				
3280	72005		ONITZOCO Z 20 Z ONITZOS MOSES				
3300	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3300	709GP	1	ONT709GP.3.21.3				
3311	. 5551						
	729GP	2	ONT729GP.3.20.7;ONT729_V005591				
3312							
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3313							
2244	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
3314	729GP	2	ONT729GP.3.20.7;ONT729_V005591				
	/29GP		ON1723GF.3.20.7;ON1723_V005591				

	OLT QUAN-U09-OL-01						
BLDG	ONT	COUNT	ONT SW				
1999							
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
26100							
	709GP	1	ONT709GP.3.21.3				
26164							
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
26183							
	709GP	1	ONT709GP.3.21.3				
27170							
	729GP	1	ONT729GP.3.20.7;ONT729_V005591				
27277							
	729GP	6	ONT729GP.3.20.7;ONT729_V005591				
27278							
	729GP	2	ONT729GP.3.20.7;ONT729_V005591				
27277A							
	709GP	1	ONT709GP.3.21.3				
27290TX							
	729GP	2	ONT729GP.3.20.7;ONT729_V005591				
TOTAL		16					
TOTAL		8					
TOTAL		8					

1//2			
	709GP	1	ONT709GP.3.21.3
<b>2189A</b>			
	709GP	1	ONT709GP.3.21.3
2201A			
	709GP	1	ONT709GP.3.21.3
2203A			
	709GP	1	ONT709GP.3.21.3
3230T			
	709GP	1	ONT709GP.3.21.3
TOTAL		92	
TOTAL		28	
TOTAL		64	

140C
140W
709GP
728GP
729GP

Total 24 port switches Needed	De-Scope	146
Total SFP's	De-Scope	584

729GP	2	ONT729GP.3.20.7;ONT729_V005591
729GP	2	ONT729GP.3.20.7;ONT729_V005591
729GP	1	ONT729GP.3.20.7;ONT729_V005591
709GP	1	ONT709GP.3.21.3
729GP	2	ONT729GP.3.20.7;ONT729_V005591
729GP	1	ONT729GP.3.20.7;ONT729_V005591
	107	
	40	
	67	
	729GP 729GP 709GP 729GP	729GP 2 729GP 1 709GP 1 729GP 2 729GP 2 729GP 1

<sup>\*\*</sup> Red-Highlighed items already have MCEN-N presense within those building arleady and are deemed out-of-scope until VSS.

<sup>\*\*</sup> All other legacy ONT devices will be replaced with C9300L-24P-4X-A switches

<b>Host Name</b>	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	/ mitsc
INHZ-U00-IR-01	INHZ	Router	Cisco	CISCO2911/K9						Naval Surface Warfare Center Indian Head MD Bldg 290	FTX1644AL07	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-IR-04	INHZ	L3Switch	Cisco	WS-C3750G-12S-E						Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X2G5	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-IS-01	INHZ	Router	Cisco	SM-ES2-24						Naval Surface Warfare Center Indian Head MD Bldg 290	FOC16403FPC	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-OS-03	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S						Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X1Z8	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U01-AS-01	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_521_Floor_1_Rm_Warehouse_Rack_1	FDO1436X243	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-02	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-S			1			4 Bldg_700_Floor_1_Room_RouterRm_Rack_1_	FDO1623X01R	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-03	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-E			1			4 Bldg_2083_Floor_1_Room_storagecloset_Rack_1_	FDO1529X1YG	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-04	INHZ	L3Switch	Cisco	WS-C4506-E				3		4 Bldg_901_Floor_1_Room_112_Rack_1_	SPE173000BG	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-05	INHZ	L3Switch	Cisco	WS-C4506-E				3		2 Bldg_901_Floor_1_Room_Mail_Rack_1_	SPE173000CR	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-06	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_290_Floor_1_Rm_MSF_Rack_AccessCab2	FDO1436X2S3	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-07	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_D61_Floor_1_Room_Boiler_Rack_1_	FDO1645Y140	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-08	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_870_Floor_1_Room_1_Rack_Wallrack_	FDO1437X03Q	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-DS-01	INHZ	L3Switch	Cisco	WS-C3750G-12S-S					2	Bldg_290_Floor_1_Room_MSF_Rack_8_	FDO1402Y2EK	NCR QUAN Nodes	NCR	QUAN
				Total		4	2	6	2	30				

Host Name	site	Device Type	<b>Device Vendor</b>	Device Model	24 Port	48 Port	C9300-48P-A 3X	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	y mitsc
PKWY-U00-IR-01	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1423GAQ3	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IR-02	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1423GAQ2	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S					MCSC Tech Parkway Stafford VA	FDO1403X0CU	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IS-04	PKWY	L3Switch	Cisco	WS-C3560V2-24TS-S					MCSC Tech Parkway Stafford VA	FDO1437X3GW	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OR-01	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1612GSN4	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OR-02	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1612GSNH	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S					Bldg_PKWY_Floor_0001_Room_Telco1_Rack_0001	FDO1403X0CP	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U01-AS-01	PKWY	L3Switch	Cisco	WS-C4506-E				3	4 Bldg_105_Floor_0001_Room_0004_Rack_0001_	FOX1415G443	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-02	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_0001_Room_0004_Rack_0001_	SPE152500N1	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-03	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_2_Room_PG10_Rack_5_	FOX1429G267	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-04	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_2_Room_MRAP_Rack_4_	FOX1405G60H	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-05	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105TechPKY_Floor_GCSS_Room_Telco1_Rack_0003_	FOX1428H2JX	NCR QUAN Nodes	NCR	QUAN
				Total			1	.5	12				

<b>Host Name</b>	site [	Device Type	<b>Device Vendor</b>	Device Model C9300L-24	C9300L-48	C9300-48P-A 3X SFP-10G-I	R++= Device Location	Serial Number	Asset Tag Partition	count company	mitsc
SCPA-U00-IR-01	SCPA F	Router	Cisco	3845			MCSC Barrett Heights Stafford VA Bldg 51	FTX1437AJGC,FOC12085P69	MCEN INS QUAN Nodes	5 MCEN	INS
SCPA-U00-OR-01	SCPA F	Router	Cisco	3845			MCSC Barrett Heights Stafford VA Bldg 51	FTX1437AJGF,FOC12085P6A	MCEN INS QUAN Nodes	5 MCEN	INS
SCPA-U01-AS-01	SCPA L	L3Switch	Cisco	WS-C4506-E		3	4 Bldg_51BH_Floor_0002_Room_Telco1_Rack_0001_	SPE17280251	NCR QUAN Nodes	4 NCR	QUAN
				Total		3	4				

<b>Host Name</b>	site	Device Type	<b>Device Vendor</b>	Device Model	C9300L-24	C9300L-48	C9300-48P-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
BAND-U00-IR-01	BAND	Router	Cisco	CISCO2911/K9					Bldg_1_Floor_Basement_Room_Basement_Telco_Rack_1_	FTX1644AKUW	MCEN INS QUAN Nodes	MCEN	INS
BAND-U00-IS-01	BAND	Router	Cisco	SM-ES2-24					Bldg_1_Floor_Basement_Room_BasementTelco_Rack_1_	FOC16418358	MCEN INS QUAN Nodes	MCEN	INS
BAND-U00-OR-01	BAND	Router	Cisco	ASR1002-X					Bldg_1_Floor_Basement_Room_Telco Rm_Rack_1_	FOX1829G0ZX	MCEN INS QUAN Nodes	MCEN	INS
BAND-U01-AS-01	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S			De-Scope 1	De-Scope 4	Bldg_1_Floor_Basement_Room_TelcoRm_Rack_1_	FDO1437V253	HQMC QUAN Nodes	HQMC	QUAN
BAND-U01-AS-02	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1			De-Scope 2	Bldg_1_Floor_1_Room_Lan RM_Rack_1_	FDO1621X11M	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-03	BAND	L3Switch	Cisco	WS-C3560V2-48TS-S		De-Scope 1		De-Scope 2	Bldg_1_Floor_2_Room_WireCloset_Rack_1_	FDO1623X01P	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-05	BAND	L3Switch	Cisco	WS-C3560X-48T-S		De-Scope 1		De-Scope 2	Bldg_1_Floor_2_Room_Telco Rm_Rack_1_	FDO1913P09U	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-06	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1			De-Scope 2	Bldg_1_floor_Garage_Room_StorageRm_Rack_1_	FDO1437V25B	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-DS-01	BAND	L3Switch	Cisco	WS-C3750G-12S-S					Bldg_1_Floor_Basement_Room_TelcoRM_Rack_1_	FDO1408X10T	HQMC QUAN Nodes	HQMC	QUAN

<sup>\*\*</sup> Row 10 (WS-3750G-12S-S) can be taken out of scope since all access switches will connect to row 5 (C9300-48P-A).

Host Name	site	Device Type	<b>Device Vendor</b>	Device Model	24 Port	48 Port	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
BRRK-U00-IR-01	BRRK	Router	Cisco	CISCO2921/K9							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AJKD	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IR-02	BRRK	Router	Cisco	CISCO2911/K9							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AKRR	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-01	BRRK	Router	Cisco	SM-ES2-24							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC16403FY5	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-02	BRRK	Router	Cisco	SM-ES2-24							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC1641834K	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_700_Floor_2_Room_Server_Rack_2_	FDO1436X1ZL	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-OR-01	BRRK	Router	Cisco	ASR1002-X							Bldg_700_Floor_2_Room_Server_Rack_3_	FOX1830GSKX	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-OS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_700_Floor_2_Room_Server_Rack_3_	FDO1436X265	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U01-AS-01	BRRK	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 4	Bldg_700_Floor_1_Room_S1_Rack_1_	SPE173400CX	HQMC QUAN Nodes	HQMC	QUAN
BRRK-U01-AS-02	BRRK	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 2	Bldg_700_Floor_2_Room_mfd_Rack_1_	SPE173000ET	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-03	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_9_Floor_Basement_Room_LAN Room_Rack_1_	FXS1733Q0TH	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-04	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_20_Floor_Garage_Room_LanRoom_Rack_1_	FXS1735Q2F2	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-05	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_21_Floor_1_Room_1_Rack_1_	FXS1733Q0YY	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-06	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS1_Floor_Basement_Room_Comm_Rack_1_	FDO1436X2SJ	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-07	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS2_Floor_Basement_Room_Comm_Rack_1_	FDO1436X26H	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-08	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS3_Floor_Basement_Room_Comm_Rack_1_	FDO1436X1SK	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-09	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS4_Floor_Basement_Room_Comm_Rack_1_	FDO1436X3J4	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-10	BRRK	L3Switch	Cisco	WS-C3560V2-48TS-S		De-Scope 1				De-Scope 4	Bldg_CMC_Floor_Basement_Room_CommRm_Rack_1_	FDO1630X009	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-DS-01	BRRK	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CK	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-DS-02	BRRK	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CS	HQMC QUAN Nodes	HQMC	QUAN
				Total		0	0	0	0	0	0				

Host Name	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	/ mitsc
WNYZ-L00-CB-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U								FOC1110Z342	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-CB-02	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U								FOC0935U0UT	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-CB-03	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-S1U								FOC1030Y47D	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-IR-01	WNYZ	Router	Cisco	ASR1002-X								FOX1830GSKY	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-IS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U							MCEN-ES	FOC1110Z20E	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-OR-01	WNYZ	Router	Cisco	ASR1006								FXS1817Q2D3	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-OS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U							MCEN-ES	FOC1110Y2BD	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-01	WNYZ	Router	Cisco	CISCO2911/K9							Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FTX1644AKZ6	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-02	WNYZ	Router	Cisco	CISCO2911/K9							Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FTX1644AL58	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-04	WNYZ	L3Switch	Cisco	WS-C3750G-12S-E							Bldg_220_Floor_2_Room_220_Rack_1_	FDO1436X2HF	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IS-01	WNYZ	Router	Cisco	SM-ES2-24							Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FOC17440MJX	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IS-02	WNYZ	Router	Cisco	SM-ES2-24							Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FOC17440MG6	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-OS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_196_Floor_2_Room_ServerFarm_Rack_2/RowA_	FDO1529X1J2	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U01-AS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_196_Floor_3_Room_302_Rack_1_	FDO1645Y12P	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-04	WNYZ	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 4	Bldg_220_Floor_2_Room_220_Rack_1_	FOX1346GVRV	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-05	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_211_Floor_1_Room_Telco	FDO1542X352	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-06	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	De-Scope 1					De-Scope 4	Bldg_196_Floor_2_Room_243_Rack_16_	FOC1209Z4UT	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-07	WNYZ	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_169_Floor_1_Room_Storage_Rack_1_	FXS1735Q2E7	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-08	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_Qtrs V_Floor_2_Room_upstair_Rack_1_	FDO1645Y135	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-DS-01	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2EB	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-DS-02	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2FX	HQMC QUAN Nodes	HQMC	QUAN
				Total		0		0	0	0	n				

Host Name	site	<b>Device Type</b>	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
ANNZ-U00-IR-01	ANNZ	Router	Cisco	CISCO3925-CHASSIS						Bldg_72_Floor_1_Room_140_Rack_1_	FTX1644AHV3	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U00-IS-01	ANNZ	Router	Cisco	SM-ES2-24						Bldg_72_Floor_1_Room_140_Rack_1_	FOC16403FQA	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U00-OS-03	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S						Bldg_72_Floor_1_Room_143_Rack_1_	FDO1436X26E	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U01-AS-02	ANNZ	L3Switch	Cisco	WS-C4506-E				3		4 Bldg_351_Floor_1_Room_Admin_Rack_1_	FXS1732Q0DX	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-AS-03	ANNZ	L3Switch	Cisco	WS-C3560-48TS-S			1			2 Bldg_351_Floor_2_Room_1_Rack_1_	FDO1431Z0YP	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-04	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				2 Bldg_352B_Floor_1_Room_1_Rack_1_	FDO1632X2QY	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-05	ANNZ	L3Switch	Cisco	WS-C3750G-24TS-S		1				2 Bldg_352A_Floor_1_Room_1_Rack_1_	CAT1050RGD2	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-99	ANNZ	Router	Cisco	C891F-K9						Bldg_351_Floor_1_Room_120_Rack_FSRDesk	FJC2034L1RJ	MARFORRES CLJN Nodes	MARFORRES	CLJN
ANNZ-U01-BI-01	ANNZ	Router	Cisco	CISCO2921/K9						VERIZON-CIRCUIT-ID (BCBKSDH60001) T-1	FTX1424AHN8	MARFORRES CLIN Nodes	MARFORRES	CLJN
ANNZ-U01-DH-01	ANNZ	Router	Cisco	2811	l					Bldg_351_Floor_1_Room_109_Rack_1_	FTX1436A0XC	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-DP-02	ANNZ	Router	Cisco	CISCO2911/K9						Bldg_400A_Floor_1_Room_1_Rack_1_	FTX1644AKYX	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-ES-02	ANNZ	Router	Cisco	SM-ES2-24						Bldg_400A_Floor_1_Room_1_Rack_1_	FOC1614709K	HQMC QUAN Nodes	HQMC	QUAN
	•													
				Total		2	1	3	0	10				

# PERFORMANCE SPECIFICATION FOR MARINE CORPS BASE QUANTICO QUANTICO, VIRGINIA

28 September 2020



### **Prepared By:**

## **UNITED STATES MARINE CORPS Marine Corps Systems Command**

**Supporting Establishment Systems PMM170 Network and Infrastructure** 

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#### 1 GENERAL

This is a Firm-Fixed-Price (FFP) Contract, for the Network Communications Infrastructure (NCI) program office to modernize the enterprise communications infrastructure aboard Marine Corps Base (MCB) Quantico, VA.

The services included in this FFP contract will be non-personal services. The Government shall not exercise any supervision or control over the contract service providers performing the services herein. Such contract service providers shall be accountable solely to the contractor who, in turn is responsible to the Government. The Government will describe the specific performance requirements at the task and delivery order level, but all work performed will fall within the general scope described herein.

#### 1.1 DESCRIPTION OF SERVICES / INTRODUCTION

The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform modernization and sustainment services as defined in this Performance Specification except for those items specified as Government Furnished Property (GFP) and services. The contractor shall perform to the standards articulated in this contract.

#### 1.2 BACKGROUND

Traditionally, Marine Corps Systems Command (MCSC), NCI Program Office (previously known as the Base Telecommunications Infrastructure) has been responsible for the upgrade and expansion of the Marine Corps' legacy Time Division Multiplexing (TDM) voice systems, Synchronous Optical Network (SONET), and outside plant (OSP) cable infrastructure. These previous efforts were typically executed via individual FFP Contracts. Due to advancing technologies and increased requirements, the BTI mission expanded to include the complete modernization/replacement of all Low Speed Time Division Multiplexing (LSTDM) technologies. More recently, the NCI mission has expanded to include the modernization of the Distribution and Access Layer Transport infrastructure to the End-User Building (EUB). As a result, NCI is now responsible for the modernization and sustainment of the Base Area Network (BAN)/Local Area Network (LAN) and the Unified Communications (UC) at every Marine Corps Installation (MCI).

#### 1.3 OBJECTIVES

The objective of this initiative is the complete modernization of the Base Telecommunications Infrastructure (BTI) aboard MCB Quantico in accordance with (IAW) the Marine Corps Wide Area Network (WAN) Transport Implementation Plan that aligns with the normalization of the Joint Information Environment (JIE). This will be realized through the enterprise-wide deployment of homogeneous systems and subsystems in order to minimize operation demands on Installation personnel and simplify sustainment activities for the NCI Program Office. This modernization effort shall include the BAN Transport and Unified Communications aboard MCB Quantico that will support the details in Sections 5.1 and 8.2 of this PWS. The overall intent of this PWS is to establish a standardized enterprise solution with the flexibility for a System Integrator (SI) to support sustainment activities that includes technical refresh and unforeseen systems upgrades to hardware, software, and ancillary equipment.

#### 1.4 SCOPE

This PWS establishes and defines the requirements for the contractor to Engineer, Furnish, Install, Secure, Test (EFIST) and make operational a turnkey BAN Transport and Enterprise UC Voice solution for the modernization of the existing communication infrastructure at MCB Quantico – or other USMC facilities as defined by the Government – to include enterprise integration and convergence. The contractor shall also provide all ancillary equipment, labor, training, software, firmware, licenses, grounding, and interfaces associated with these systems to deliver a complete turnkey solution. The contractor shall provide all supporting documentation associated with the delivered solution.

#### 1.5 ORDERING PERIOD / PERIOD OF PERFORMANCE

The delivery for this modernization effort will be 18 months after contract award.

#### 1.6 GENERAL INFORMATION

#### 1.6.1 RECONGNIZED HOLIDAYS

The contractor is not required to perform work or services on the Federal Government holidays identified below.

New Year's Day

Martin Luther King Jr.'s Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

#### 1.6.2 HOURS OF OPERATION

The contractor shall provide services IAW Marine Corps Systems Command Order 5530.2, working hours for on-site contractors shall be within 0630-1800 local time. All work shall typically be performed within the Government-defined core hours. There may be a need for occasional work outside of normal Government-defined core hours. No overtime will be authorized.

#### 1.6.3 PLACE OF PERFORMANCE

The work to be performed under this FFP Contract will be performed at MCB Quantico in Quantico, VA.

#### 1.6.4 TYPE OF CONTRACT

The Government will award a FFP Contract issued for specific work at MCB Quantico.

#### 1.6.5 PHYSICAL SECURITY

The contractor shall be responsible for safeguarding all Government equipment, information and property provided for contractor use. At the close of each work period, Government facilities, equipment, and materials shall be secured.

#### 1.6.6 SECURITY REQUIREMENTS

The information provided to the contractor will be unclassified and/or Controlled Unclassified Information (CUI). Certain contractors will be required to perform IT-I/II duties that require favorably adjudicated Tier 5/3 Level investigations. The Defense Counterintelligence Security Agency (DCSA) will not authorize contractors to submit the necessary Tier Level investigations, solely in support of IT level designation requirements, without a valid classified requirement as specified in a DD-254. This effort does not warrant a DD-254, therefore the Government Contracting Activity Security Office (GCASO) is required to submit any required investigations in support of IT level designations. The contractor is required to provide a roster of prospective contractor employees performing IT Level II and/or IT Level I duties to the MCSC Contracting Officer's Representative (COR). This roster shall include: full names, Social Security Numbers, IT Level required, e-mail address, and phone number for each contractor requiring investigations in support of IT Level designations. The COR will verify the IT Level requirements and forward the roster to the GCASO. Contractors found to be lacking required investigations will be contacted by the GCASO.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) via encrypted e-mail to MCSC\_Security@usmc.mil or 703-432-3374/3952 if any contractor performing on this contract receives an unfavorable adjudication. The FSO must also notify the PERSEC Office, within 24 hours, of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor performing on this contract, if they have been granted an IT designation, issued a CAC and/or a MCSC Building Badge. The FSO shall notify the Government (written notice) within 24 hours of any contractor personnel added or removed from the contract that have been granted IT designations, issued a Common Access Card (CAC) and/or a MCSC Building badge/access.

#### 1.6.6.1 DEFENSE BIOMETRIC IDENTIFICATION CARD

Certain contractors may require the issuance of a Defense Biometric Identification (DBID) card in order to gain access to MCB Quantico. The Contracting Officer Representative (COR) will identify and approve only those contractor personnel performing on this contract that require a DBID card in order to perform their job function aboard the base.

#### 1.6.6.2 VENDOR SCREENING

The contractor shall return a completed Contractor Screening Form, which will be provided as Attachment (5) to the SF1449, in order to identify all contractor personnel requiring access to Installations/Detachments, base facilities, and/or handling Government assets. This form includes personal identification information for respective contractor personnel and shall be either: hand delivered to the Installation Technical Support Officer (TSO) or sent in a password protected document. If the vendor screening form is sent via e-mail, the password shall be provided and sent in a separate email. The contractor shall provide a completed form to the TSO no later than two (2) weeks prior to the start of work for processing and vetting by the Installation/Detachment Security Office. The Security Office will respond with any favorable or unfavorable screening outcomes as they are received from the Installation Provost Marshall's Office (PMO). Any personnel receiving an unfavorable outcome will not be authorized access to the Installation for the purpose of performing work related to this contract.

All required escorts shall be provided by Base, G/S-6 staff. It is the contractor's responsibility to secure any facility upon exiting the facility for which they are provided a key and unescorted access. The Base, G/S-6 will exercise security supervision over all contractor personnel working on this project and will provide security support to the contractor. The contractor shall comply with all emergency rules and procedures established for this Base. All personnel aboard the Base are subject to random inspections of their vehicles, personal items, and of themselves. Consent to these inspections is considered to have been given upon entrance to the base and its facilities. Photography, videotaping, and/or audio recordings aboard the base are strictly prohibited without proper authorization by the local Base authorities.

#### 1.6.6.3 COMMON ACCESS CARD

The COR will identify and only approve those contractor employees performing on this contract that require CACs in order to perform their job function. In accordance with Headquarters, United States Marine Corps issued guidance relative to Homeland Security Presidential Directive – 12 (HSPD-12), all personnel must meet eligibility criteria to be issued a CAC. In order to meet the eligibility criteria, contractor employees requiring a CAC must obtain and maintain a favorably adjudicated Personnel Security Investigation (PSI). Prior to authorizing a CAC, the employee's Joint Personnel Adjudication System (JPAS) record must indicate a completed and favorably adjudicated PSI or (at a minimum) that a PSI has been submitted and accepted (opened). The minimum acceptable investigation is a T-1 or a National Agency Check with Written Inquiries (NACI). If a contractor employee's open investigation closes and is not favorably adjudicated, the CAC must be immediately retrieved and revoked. CACs are not issued for convenience.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) at 703-432-3490/3952 if any contractor performing on this contract receives an unfavorable adjudication after being issued a CAC. The FSO must also immediately notify the PERSEC Office of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor issued a CAC, regardless of whether a JPAS Incident Report is submitted.

Each CAC is issued with a "ctr@usmc.mil" e-mail account that the individual contractor is responsible to keep active by logging in on a regular basis (at least twice a month), sending an e-mail and clearing any unneeded e-mails. Contractors issued a CAC are prohibited from "auto- forwarding" e-mail from their .mil e-mail account to their .com e-mail account. If the "ctr@usmc.mil" e-mail account is not kept active, G-6 will deactivate the account and the CAC will also lose its functionality. Contractor employees shall solely use their government furnished "ctr@usmc.mil" e-mail accounts for work supporting the USMC, conducted in fulfillment of this contract, and shall not use a contractor supplied or personal e-mail account to conduct FOUO government business. The use of a contractor or personal e-mail account for contractor business or personal use is allowed, but only when using cellular or a commercial internet service provider.

If a contractor loses their eligibility for a CAC due to an adverse adjudicative decision, they have also lost their eligibility to perform on MCSC contracts.

#### 1.6.6.4 MARINE CORPS ENTERPRISE NETWORK COMPUTER ACCESS

Contractor personnel accessing Marine Corps Systems Command Computer systems must maintain compliance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access

Guide. Contractor personnel will submit a DD Form 2875, Systems Authorization Access Request (SAAR), and completion certificates for the CYBERC course located on MarineNet at https://www.marinenet.usmc.mil. The CYBERC course consists of the DoD Cyber Awareness Challenge and Department of the Navy Annual Privacy Training on Personally Identifiable Information (PII). Contractors will have to create a MarineNet account in order to acquire the required training.

Marine Corps Enterprise Network (MCEN) Information Technology (IT) resources if provided are designated For Official Use Only (FOUO) and other limited authorized purposes. DoD military, civilian personnel, consultants, and contractor personnel performing duties on MCEN information systems may be assigned to one of three position sensitivity designations.

- ADP-I (IT-1): Favorably adjudicated T-5, T5R, (formerly known as Single Scope Background Investigation (SSBI)/SSBI Periodic Reinvestigation (SBPR)/SSBI Phased Periodic Reinvestigation (PPR))
- 2. ADP-II (IT-2): Favorably adjudicated T-3, T3R, (formerly known as Access National Agency Check and Inquiries (ANACI)/ National Agency Check with Law and Credit (NACLC)/Secret Periodic Review (S-PR))
- 3. ADP-III (IT-3): Completed T-1, (formerly known as National Agency Check with Inquiries (NACI))

All privileged users (IT-1) must undergo a T-5 investigation regardless of the security clearance level required for the position. Privileged users must maintain the baseline Cyberspace Workforce Cybersecurity Technical (CST) or Cybersecurity Manager (CSM) relating to the position being filled. Privileged users are defined as anyone who has privileges over a standard user account as in system administrators, developers, network administrators, code signing specialist and Service Desk technicians.

All MCEN users must read, understand, and comply with policy and guidance to protect classified information and Controlled Unclassified Information (CUI), and to prevent unauthorized disclosures in accordance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access Guide and CJCSI 6510.01F.

MCEN Official E-mail Usage - MCEN IT resources are provided for official Government use only and other limited authorized purposes. Authorized purposes may include personal use within limitations as defined by the supervisor or the local command. Auto forwarding of e-mail from a MCEN Non-classified Internet Protocol Network MCEN-N) to commercial or private domains (e.g., Hotmail, Yahoo, Gmail, etc.) is strictly prohibited. E-mail messages requiring either message integrity or non-repudiation are digitally signed using DoD Public Key Infrastructure (PKI). All e-mail containing an attachment or embedded active content must be digitally signed.

MCEN users will follow specific guidelines to safeguard CUI, including PII and FOUO. Non-official e-mail is not authorized for and will not be used to transmit CUI to include PII and Health Insurance Portability and Accountability Act (HIPAA) information. Non-official e-mail is not authorized for official use unless under specific situations where it is the only mean for communication available to meet operational requirements. This can occur when the official MCEN provided e-mail is not available but must be approved prior to use by the Marine Corps Authorizing Official (AO).

All personnel will use DoD authorized PKI certificates to encrypt e-mail messages if they contain any of the following:

- 1. Information that is categorized as FOUO or Sensitive but Unclassified (SBU).
- 2. Any contract sensitive information that normally would not be disclosed to anyone other than the intended recipient.
- 3. Any privacy data, PII, or information that is intended for inclusion in an employee's personal file or any information that would fall under the tenets of MSGID: DOC/5 USC 552A. Personal or commercial e-mail accounts are not authorized to transmit unencrypted CUI or PII.
- 4. Any medical or health data, to include medical status or diagnosis concerning another individual.
- 5. Any operational data regarding status, readiness, location, or deployment of forces or equipment.

#### 1.6.6.5 KEY CONTROL

The contractor shall establish and implement methods of making sure all keys/key cards issued to the contractor by the Government are not lost or misplaced and are not used by unauthorized persons.

**NOTE:** All references to keys include key cards.

No keys issued to the contractor by the Government shall be duplicated. The contractor shall develop procedures covering key control that shall be included in the Quality Control Plan. Such procedures shall include turn-in of any issued keys by personnel who no longer require access to locked areas. The contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the Contracting Officer.

In the event keys, other than master keys, are lost or duplicated, the contractor shall, upon direction of the Contracting Officer, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be deducted from the next payment due the contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from the next payment due the contractor.

The contractor shall prohibit the use of Government issued keys/key cards by any persons other than the contractor's employees. The contractor shall prohibit the opening of locked areas by contractor employees to permit entrance of persons other than contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the Contracting Officer.

#### 1.6.6.6 LOCK COMBINATIONS

The contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the contractor's Quality Control Plan.

#### 1.6.7 POST AWARD CONFERENCE/PERIODIC MEETINGS

The contractor agrees to attend any post award conference convened by the contracting activity in accordance with Federal Acquisition Regulation Subpart 42.5. The Contracting Officer, Contracting Officer's Representative (COR), and other Government personnel, as appropriate, may meet periodically with the contractor to review the contractor's performance. At these meetings the Contracting Officer will apprise the contractor of how the Government views the contractor's performance and the contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the Government.

#### 1.6.8 CONTRACTING OFFICER'S REPRESENTATIVE

The COR(s) will be identified by separate letter(s) and monitors all technical aspects of the FFP Contract, task and delivery orders, and assists in contract administration. The COR(s) is authorized to perform the following functions: assure that the contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the contractor concerning technical aspects of the contract; issue written interpretations of technical requirements, including Government drawings, designs, specifications; monitor contractor's performance and notify both the Contracting Officer and contractor of any deficiencies; coordinate availability of Government Furnished Property (GFP); and provide site entry of contractor personnel. A letter of designation issued to the COR(s), a copy of which is sent to the contractor, states the responsibilities and limitations of the COR(s), especially regarding changes in price estimates or changes in delivery dates or periods of performance. The COR(s) is/are not authorized to change any of the terms and conditions of the resulting order, especially any terms that affect price, delivery schedule, or period of performance.

#### 1.6.9 KEY PERSONNEL

The contractor shall provide a Project Manager who shall be responsible for the performance of the work. The name of this person and an alternate who shall act for the contractor when the manager is absent shall be designated in writing to the Contracting Officer. The Project Manager or alternate shall have full authority to act for the contractor on all contract matters relating to daily operation of this contract.

The Project Manager or alternate shall be available between 8:00 AM to 4:30 PM, Monday thru Friday based on the time zone of the location/Installation except Federal holidays or when the Government facility is closed for administrative reasons.

Qualifications for all key personnel are listed in Table 1.

KEY PERSONNEL	CERTIFICATIONS	EXPERIENCE	SKILL	PROJECT SEQEMENT
Project Manager	Certified PMP or equivalent experience	7 Years Project Management	Proven leadership, management, and organizational skills	Implementation
On-Site Project Manager	Certified PMP or equivalent experience	· ·	Proven leadership, management, and supervisory skills	Implementation
Quality Control/Quality Assurance Manager	BICSI Installer Certified	7 Years QC/QA Management	Proven telecommunications quality management skills	Implementation
Lead Systems Engineer (LSE)	BS Science/Engineering	10 Years Engineering Discipline	Licensed Professional Engineer (PE)	Implementation
Network/Telecommunications Engineer	Registered Communications Distribution Design (RCDD)	10 Years Network/ Telecommunications	Proven telecommunications design and installation skills	Implementation
Logistician	Certified Professional Logistician	5 Years Logistics Management	Proven leadership, management, and organizational skills	Sustainment

**Table 1 – Key Personnel\*** 

#### 1.6.10 IDENTIFICATION OF CONTRACTOR EMPLOYEES

All contract personnel attending meetings, answering Government telephones, and working in any situations where their contractor status is not obvious to third parties are required to identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials. They must also ensure that all documents or reports produced by contractors are suitably marked as contractor products or that contractor participation is appropriately disclosed. Contractors shall obtain visitor badges in accordance with MCB Quantico security policy.

#### 1.6.11 CONTRACTOR TRAVEL

The contractor may be required to travel to off-site training locations and to ship training aids to these locations in support of this PWS. Contractor may be authorized travel expenses consistent with the substantive provisions of the Federal Acquisition Regulation 31.205-46 and the limitation of funds specified in each task and delivery order. All travel requires prior Government approval/authorization by the COR(s).

#### 1.6.12 ORGANIZATION CONFLICT OF INTEREST

To the extent that the work under this contract requires access to proprietary, business confidential, or financial data of other companies, and as long as these data remain proprietary or confidential, the contractor shall protect the data from unauthorized use and disclosure and agrees not to use it to compete with those other companies.

1. "Organizational Conflict of Interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. "Person" as used herein includes corporations, partnerships, joint ventures, and other business enterprises.

<sup>\*</sup> Fr the Quality Control/Quality Assurance Manager, the Contractor may swap 5 years of relevant QC/QA experience for the BICSI certification.

<sup>\*</sup> For the Logistician, the Contractor may swap 5 years of logistics experience for the Certified Professional Logistician certification

- 2. The contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in the contract, the contractor does not have any organizational conflict of interest(s) as defined in paragraph (1).
- 3. It is recognized that the effort to be performed by the contractor under this contract may create a potential organizational conflict of interest on the instant contract or on a future acquisition. In order to avoid potential conflict of interest, and at the same time to avoid prejudicing the best interest of the government, the right of the contractor to participate in future procurement of equipment and/or services that are the subject of any work under this contract shall be limited as described below in accordance with the requirements of FAR Subpart 9.5.

#### 4. The contractor agrees:

- a) That it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the government any information provided to the contractor by the government during or as a result of performance of this contract. Such information includes, but is not limited to, information submitted to the government on confidential basis by other persons. Further, the prohibition against release of government provided information extends to cover such information whether or not in its original form, e.g., where the information has been included in contractor generated work or where it is discernible from materials incorporating or based upon such information. This prohibition shall not expire after a given period of time. See, DFARS 252.204-7000, Disclosure of Information, included in the contract.
- b) The contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure or any party outside the government any information generated or derived during or as a result of performance of this contract.
- c) The prohibitions contained in subparagraphs (4)(a) and (4)(b) shall apply with equal force to any affiliate of the contractor, any subcontractor, consultant, or employee of the contractor, any joint venture involving the contractor, any entity into or with which it may merge or affiliate, or any successor or assign of the contractor. The terms of paragraph (f) of the Special contractor Requirement relating to notification shall apply to any release of information in contravention of this paragraph (4).
- 5. The contractor further agrees that during the performance of this contract and for a period of three years after completion of performance of this contract, the contractor; any affiliate of the contractor; any subcontractor, consultant, or employee of the contractor; any joint venture involving the contractor; any entity into or with which it may subsequently merge or affiliate; or any other successor or assign of the contractor, shall not furnish to the Marine Corps, either as a prime contractor or as a subcontractor, or as a consultant to a prime contractor or as a subcontractor, any system, component or services which is the subject of the work to be performed under this contract. This exclusion does not apply to any re-competition for those systems, components, or services on the basis of work statements growing out of the effort performed under this contract, developed from a source other than the contractor, subcontractor affiliate, or assign of either. During the course of performance of this contract or before the three-year period following completion of this contract has lapsed, the contractor may, with the authorization of the cognizant contracting officer, participate in a subsequent procurement for the same system, component, or service. In other words, the contractor may be authorized to

- compete for procurement(s) for systems, components or services subsequent to an intervening procurement.
- 6. The contractor agrees that, if after award, it discovers an actual or potential organizational conflict of interest; it shall make immediate and full disclosure in writing to the contracting officer. The notification shall include a description of the actual or potential organizational conflict of interest, a description of the action, which the contractor has taken or proposes to take to avoid, mitigate, or neutralize the conflict, and any other relevant information that would assist the contracting officer in making a determination on this matter. Notwithstanding this notification, the government may terminate the contract for the convenience of the government if determined to be in the best interest of the government.
- 7. Notwithstanding paragraph (6) above, if the contractor was aware, or should have been aware, of an organizational conflict of interest prior to the award of this contract or becomes, or should become aware of an organizational conflict of interest after award of this contract and does not make an immediate and full disclosure in writing to the contracting officer, the government may terminate this contract for default.
- 8. If the contactor takes any action prohibited by this requirement or fails to take action required by this requirement, the government may terminate this contract by default.
- 9. The contracting officer's decision as to the existence or nonexistence of the actual or potential organization conflict of interest shall be final and is not subject to the clause of this contract entitled "DISPUTES" (FAR 52.233.1).
- 10. Nothing in this requirement is intended to prohibit or preclude the contractor from marketing or selling to the United States Government its product lines in existence on the effective date of this contract; nor, shall this requirement preclude the contractor from participating in any research and development. Additionally, sale of catalog or standard commercial items are exempt from this requirement.
- 11. The contractor shall promptly notify the contracting officer, in writing, if it has been tasked to evaluate or advise the government concerning its own products or activities or those of a competitor in order to ensure proper safeguards exist to guarantee objectivity and to protect the government's interest.
- 12. The contractor shall include this requirement in subcontracts of any tier which involve access to information or situations/conditions covered by the preceding paragraphs, substituting "subcontractor" for "contactor" where appropriate.
- 13. The rights and remedies described herein shall not be exclusive and are in addition to other rights and remedies provided by law or elsewhere included in this contract. 5.4. Proprietary Information Exchange Agreement (PIEA)/Non-Disclosure Agreements (NDA). The contractor shall arrange the signature on all PIEA/non-disclosure agreements necessary to interface with other contractors to accomplish the contract requirements in accordance with FAR 9.505-4 prior to beginning any efforts associated with this PWS. Copies of all non-disclosure agreements required for this contract shall be provided to the Contracting Officer and COR.

#### 1.6.13 SYSTEM SECURITY PLAN

- 1. System Security Plan and Plans of Action and Milestones (SSP/POAM) Reviews
- a) Within thirty (30) days of contract award, the Contractor shall make its System Security Plan(s) (SSP(s)) for its covered contractor information system(s) available for review by the Government at the contractor s facility. The SSP(s) shall implement the security requirements in Defense Federal Acquisition Regulation Supplement (DFARS) clause 252.204-7012, which is included in this contract. The Contractor shall fully cooperate in the Government s review of the SSPs at the Contractor s facility.
- b) If the Government determines that the SSP(s) does not adequately implement the requirements of DFARS clause 252.204-7012 then the Government shall notify the Contractor of each identified deficiency. The Contractor shall correct any identified deficiencies within thirty (30) days of notification by the Government. The contracting officer may provide for a correction period longer than thirty (30) days and, in such a case, may require the Contractor to submit a plan of action and milestones (POAM) for the correction of the identified deficiencies. The Contractor shall immediately notify the contracting officer of any failure or anticipated failure to meet a milestone in such a POAM.
- c) Upon the conclusion of the correction period, the Government may conduct a follow-on review of the SSP(s) at the Contractor's facilities. The Government may continue to conduct follow-on reviews until the Government determines that the Contractor has corrected all identified deficiencies in the SSP(s).
- d) The Government may, in its sole discretion, conduct subsequent reviews at the Contractor's site to verify the information in the SSP(s). The Government will conduct such reviews at least every three (3) years (measured from the date of contract award) and may conduct such reviews at any time upon thirty (30) days' notice to the Contractor.
- 2. Compliance to NIST 800-171
- a) The Contractor shall fully implement the CUI Security Requirements (Requirements) and associated Relevant Security Controls (Controls) in NIST Special Publication 800-171 (Rev. 1) (NIST SP 800-171), or establish a SSP(s) and POA&Ms that varies from NIST 800-171 only in accordance with DFARS clause 252.204-7012(b)(2), for all covered contractor information systems affecting this contract.
- b) Notwithstanding the allowance for such variation, the contractor shall identify in any SSP and POA&M their plans to implement the following, at a minimum:
- (1) Implement Control 3.5.3 (Multi-factor authentication). This means that multi-factor authentication is required for all users, privileged and unprivileged accounts that log into a network. In other words, any system that is not standalone should be required to utilize acceptable multi-factor authentication. For legacy systems and systems that cannot support this requirement, such as CNC

equipment, etc., a combination of physical and logical protections acceptable to the Government may be substituted;

- (2) Implement Control 3.1.5 (least privilege) and associated Controls, and identify practices that the contractor implements to restrict the unnecessary sharing with, or flow of, covered defense information to its subcontractors, suppliers, or vendors based on need-to-know principles;
- (3) Implement Control 3.1.12 (monitoring and control remote access sessions) Require monitoring and controlling of remote access sessions and include mechanisms to audit the sessions and methods.
- (4) Audit user privileges on at least an annual basis;
- (5) Implement:
- i. Control 3.13.11 (FIPS 140-2 validated cryptology or implementation of NSA or NIST approved algorithms (i.e. FIPS 140-2 Annex A: AES or Triple DES) or compensating controls as documented in a SSP and POAM); and,
- ii. NIST Cryptographic Algorithm Validation Program (CAVP) (see https://csrc.nist.gov/projects/cryptographic-algorithm-validation-program);
- (6) Implement Control 3.13.16 (Protect the confidentiality of CUI at rest) or provide a POAM for implementation which shall be evaluated by the Navy for risk acceptance.
- (7) Implement Control 3.1.19 (encrypt CUI on mobile devices) or provide a plan of action for implementation which can be evaluated by the Government Program Manager for risk to the program.
- 3. Cyber Incident Response:
- a) The Contractor shall, within fifteen (15) days of discovering the cyber incident (inclusive of the 72-hour reporting period), deliver all data used in performance of the contract that the Contractor determines is impacted by the incident and begin assessment of potential warfighter/program impact.
- b) Incident data shall be delivered in accordance with the Department of Defense Cyber Crimes Center (DC3) Instructions for Submitting Media available at <a href="http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...">http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...</a> In delivery of the incident data, the Contractor shall, to the extent practical, remove contractor-owned information from Government covered defense information.
- c) If the Contractor subsequently identifies any such data not previously delivered to DC3, then the Contractor shall immediately notify the contracting officer in writing and shall deliver the incident data within ten (10) days of identification. In such a case, the Contractor may request a delivery date later than ten (10) days after identification. The contracting officer will approve or disapprove the request after coordination with DC3.

#### 4. Naval Criminal Investigative Service (NCIS) Outreach

The Contractor shall engage with NCIS industry outreach efforts and consider recommendations for hardening of covered contractor information systems affecting DON programs and technologies.

#### 5. NCIS/Industry Monitoring

- a) In the event of a cyber incident or at any time the Government has indication of a vulnerability or potential vulnerability, the Contractor shall cooperate with the Naval Criminal Investigative Service (NCIS), which may include cooperation related to: threat indicators; pre-determined incident information derived from the Contractor's infrastructure systems; and the continuous provision of all Contractor, subcontractor or vendor logs that show network activity, including any additional logs the contractor, subcontractor or vendor agrees to initiate as a result of the cyber incident or notice of actual or potential vulnerability.
- b) If the Government determines that the collection of all logs does not adequately protect its interests, the Contractor and NCIS will work together to implement additional measures, which may include allowing the installation of an appropriate network device that is owned and maintained by NCIS, on the Contractor's information systems or information technology assets. The specific details (e.g., type of device, type of data gathered, monitoring period) regarding the installation of an NCIS network device shall be the subject of a separate agreement negotiated between NCIS and the Contractor. In the alternative, the Contractor may install network sensor capabilities or a network monitoring service, either of which must be reviewed for acceptability by NCIS. Use of this alternative approach shall also be the subject of a separate agreement negotiated between NCIS and the Contractor.
- c) In all cases, the collection or provision of data and any activities associated with this statement of work shall be in accordance with federal, state, and non-US law.

#### 2 DEFINITIONS AND ACRONYMS

#### 2.1 **DEFINITIONS**

BACKBONE TRANSPORT. The communications infrastructure, outside plant cable and electronic equipment, that provides both the physical and logical connection between communications (core and distribution) nodes.

DEFECTIVE SERVICE. A service output that does not meet the standard of performance described within the Performance Specification.

DELIVERABLE. Anything that can be physically delivered but may include non-manufactured things such as meeting minutes or reports.

KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract. Key Personnel are listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

LONG LEAD ITEMS. Long lead Items are defined as those items that take sixty (60) or more calendar days to procure/receive due to complex design, complicated manufacturing process, and/or limited production capacity.

LOCAL TIME. Time at reckoned in a particular region or time zone.

PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.

#### 2.2 ACRONYMS

Acronym	Term		
A&A	Assessment and Authorization		
AC	Alternating Current		
ACD	Automatic Call Distribution		
ACAS	Assured Compliance Assessment Solutions		
AHJ	Authority Having Jurisdiction		
ANACI	Access National Agency Check and Inquiries		
AO	Authorizing Official		
APL	Approved Product List		
AS	Assured Services		
ASR	Asset Shipping Report		
ATC	Authorization to Connect		
ATO	Authorization to Operate		
ATS	Automatic Transfer Switch		
AWG	American Wire Gauge		
B/P/C/S	Base/Post/Camps/Stations		
BAN	Base Area Network		
BET	Building Entrance Terminal		
BoL	Bill of Lading		
BOM	Bill of Materials		

Acronym	Term		
BTI	Base Telephone Infrastructure		
CAC	Common Access Card		
CAT I	Category I		
CAT II	Category II		
CAT III	Category III		
CCB	Configuration Control Board		
CEC	Continuing Education Credits		
CEDC	Component Enterprise Data Center		
CFR	Code of Federal Regulations		
CI	Configuration Item		
CLIN	Contract Line Item Number		
CM	Configuration Management		
CMDB	Configuration Management Database		
CMP	Configuration Management Plan		
CN	Core Node		
CND	Computer Network Defense		
CONOPS	Concept of Operations		
CONUS	Continental United States (excludes Alaska and Hawaii)		
COPP	Certified Output Protection Protocol		
COR	Contracting Officer Representative		
CoS	Class of Service		
COTR	Contracting Officer's Technical Representative		
COTS	Commercial-Off-the-Shelf		
CPD	Capability Production Document		
CRM	Comments Resolution Matrix		
CS	Cyber Security		
CSM	Cyber Security Manager		
CSSA	Customer Service Support Application		
CST	Cyber Security Technical		
CUI	Controlled Unclassified Information		
CWDM	Coarse Wavelength Division Multiplexing		
DBID	Defense Biometric Identification		
DC	Direct Current		
DD1149	Requisition and Invoice Shipping Document (Form DD1149)		
DD250	Department of Defense Form 250 (Receiving Report)		
DD254	Department of Defense Contract Security Requirement List		
DEA	Drug Enforcement Administration		
DFARS	Defense Federal Acquisition Regulation Supplement		
DISA	Defense Information Systems Agency		
DISN	Defense Information Systems Network		
DLA-DS	Defense Logistics Agency - Disposition Services		
DN	Distribution Node		
DoD	Department of Defense		
DoDIN	DoD Information Network		

Acronym	Term		
DoN	Department of the Navy		
DSCP	Differentiated Service Code Points		
DSX	Digital Signal Cross-Connect		
DWDM	Dense Wavelength Division Multiplexing		
E911/NG911	Enhanced 911/Next Generation 911		
EDP	Engineering Design Package		
EFIST	Engineer, Furnish, Install, Secure, Test		
EMT	Electrical Metallic Tubing		
EOL	End of Life		
EOS	End of Service		
EPO	Emergency Power Off		
ES&D	Enterprise Staging and Deployment		
ESL	Enterprise Software License		
ESOH	Environmental, Safety and Occupational Health		
ETAS	Emergency Technical Assistance Services		
EUB	End-user Building		
EULA	End User License Agreement		
EEVE	Enterprise Engineering and Verification Environment		
FAR	Federal Acquisition Regulation		
FBI	Federal Bureau of Investigation		
FFP	Firm Fixed Price		
FISMA	Federal Information Security Management Act		
FOUO	For Official Use Only		
FSE	Field Service Engineer		
FSO	Facility Security Officers		
GAT	Government Acceptance Test		
GFI	Government Furnished Information		
GFP	Government Furnished Property		
HIPAA	Health Insurance Portability and Accountability Act		
HMX-1	Marine Headquarters Squadron One		
HSPD-12	Homeland Security Presidential Directive-12		
HVAC	Heating, Ventilating, and Air Conditioning		
HW	Hardware		
I3A	Installation Information Infrastructure Architecture		
I3MP	Installation Information Infrastructure Modernization Program		
IAW	In Accordance With		
IBC	International Building Code		
INFOCON	Information Operations Conditions		
iRAPT	Invoice Receipt Acceptance and Property Transfer		
ISN	Installation Service Node		
ISP	Inside Plant		
IT	Information Technology		
ITIL	Information Technology Infrastructure Library		
IUID	Item Unique Identification		

Acronym	Term		
IVR	Interactive Voice Recognition		
GFP	Government Furnished Property		
JIE	Joint Information Environment		
JITC	Joint Interoperability Test Command		
JPAS	Joint Personnel Adjudication System		
JTR	Joint Travel Regulation		
KSA	Key Systems Attributes		
LAN	Local Area Network		
LCL	Logistic Lifecycle		
LCSP	Life-Cycle Sustainment Plan		
LOC	Letter of Clarification		
LSC	Local Session Controller		
LSTDM	Low Speed Time Division Multiplexing		
MCCAST v2	Marine Corps Certification and Accreditation Support Tool		
MCEN	Marine Corps Enterprise Network		
MCCOG	Marine Corps Cyberspace Operation Group		
MCSC	Marine Corps Systems Command		
MDF	Main Distribution Frames		
MPT	Manpower and Training		
MOS	Mean Opinion Score		
MOS	Military Occupational Specialty		
MOSA	Modular Open Systems Approach		
MSDS	Material Safety Data Sheet		
MUDG	Military Unique Deployment Guide		
NACI	National Agency Check with Written Inquiries		
NACLC	National Agency Check with Law and Credit		
NCA	National Capitol Region		
NCES	Net-Centric Enterprise Services		
NCI	Network Communications Infrastructure		
NDA	Non-disclosure Agreement		
NET	New Equipment Training		
NIPRNet	Non-classified Internet Protocol Router Network		
NIR	Non-Developmental Item Integration Review		
NLT	No Later Than		
NMCARS	Navy Marine Corps Acquisition Regulation Supplement		
NMCI	Navy and Marine Corps Intranet		
NOC	Network Operations Center		
NSN	National Stock Number		
OCI	Organizational Conflict of Interest		
OCONUS	Outside Continental United States (includes Alaska and Hawaii)		
OEM	Original Equipment Manufacturer		
O&M	Operations and Maintenance		
ON	Optical Network		
OSP	Outside Plant		

Acronym	Term		
OSPDPR	Outside Plant Design and Performance Requirements		
OTS	Optical Transport System		
PAC	Post Award Conference		
PCA	Physical Configuration Audit		
PCR	Project Close-out Review		
PDU	Power Distribution Unit		
PERSEC Office	Personnel Security Office		
PESHE	Programmatic Environment, Safety and Occupational Health,		
	and Evaluation		
PIA	Privacy Impact Assessment		
PIEA	Proprietary Information Exchange Agreement		
PII	Personally Identifiable Information		
PM	Project Manager		
PMM-172	Program Manager Marine, Customer Support and Strategic Sourcing		
PMO	Provost Marshall's Office		
PM N&I	Program Manager Network and Infrastructure		
POA&M	Plan of Actions and Milestones		
POC	Point of Contact		
PoP	Period of Performance		
PP	Protection Profiles		
PPSM	Ports, Protocol, Services, and Management		
PRS	Performance Requirements Summary		
PSI	Personnel Security Investigation		
PSR	Project Status Review		
PSS	Pre-award Site Survey		
PSTN	Public Switched Telephone Network		
PUR	Purchaser User Rights		
PUR	Product User Rights		
QA	Quality Assurance		
OAP	Quality Assurance Program		
QASP	Quality Assurance Surveillance Plan		
QC	Quality Control		
QCP	Quality Control Program		
QoS	Quality of Service		
RMA	Return Material Authorization		
RMF	Risk Management Framework		
ROADM	Reconfigurable Optical Add/Drop Multiplexers		
RTM	Requirements Traceability Matrix		
RTS	Real Time Service		
RU	Rack Units		
S-PR	Secret Periodic Review		
SAAR	System Authorization Access Request		
SAR	Safety Assessment Report		
SAT	System Acceptance Test		

Acronym	Term		
SDN	Software Defined Network		
SEP	System Engineering Plan		
SI	System Integrator		
SIP	Session Initiation Protocol		
SIPRNet	Secure Internet Protocol Router Network		
SLA	Software License Agreement		
SLIN	Sub-Line Item Number		
SON	Statement of Need		
SONET	Synchronous Optical Network		
SPPN	Special Purpose Processing Node		
SBPR	SSBI Periodic Reinvestigation		
SSBI	Single Scope Background Investigation		
SPPR	SSBI Phased Periodic Reinvestigation		
SRG	Security Requirement Guides		
SSR	Site Specific Requirements		
STIG	Security Technical Information Guide		
SURA	Software User Rights Agreement		
SW	Software		
T&E	Test and Evaluation		
TAS	Technical Assistance Services		
TCCB	Team Configuration Control Board		
TDM	Time Division Multiplexing		
TDP	Technical Data Package		
TGB	Telecommunications Grounding Busbar		
TIA	Telecommunications Industry Association		
TIM	Technical Interchange Meeting		
TMGB	Telecommunications Main Grounding Busbar		
TMS	Telephony Management Systems		
TOS	Terms of Service		
TPN	Tactical Processing Node		
TRDP	Technical Review Data Package		
TPTCTS	Test Procedures, Test Cases, Test Scripts		
TRR	Test Readiness Review		
TSO	Technical Support Officer		
TTP	Tactics, Techniques, and Procedures		
UC	Unified Communications		
UCR	Unified Capabilities Requirements		
UFC	Unified Facilities Criteria		
UID	Unique Identification		
UII	Unique Item Identifier		
UPS	Uninterrupted Power Supply		
VLAN	Virtual Local Area Network		
VLRA	Valve Regulated Lead Acid		
VoIP	Voice over Internet Protocol		

Acronym	Term
VRF	Virtual Routing and Forwarding
VSS	Verification Site Survey
WAN	Wide Area Network
WAP	Wireless Access Point
WAWF	Wide Area Work Flow
WLAN	Wireless Local Area Network
WSS	Wave Selectable Switch
XMPP	Extensible Messaging and Presence Protocol

### 3 GOVERNMENT FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

The Government will not be providing any Government furnished property for this contract.

#### 4 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES

#### 4.1 GENERAL

The contractor shall furnish all supplies, equipment, facilities, and services required to perform work under this contract that are not identified in Section 3 of this PWS.

Accountability for all hardware and software is the sole responsibility of the contractor until such time as the Government has performed the final acceptance. All Bills of Ladings (BoLs) and shipping documents shall be provided to the Program Office upon receipt of the shipments. The contractor shall provide the Government with an initial Bill of Materials (BOM) and Configuration Management Database (CMDB) at the Technical Interchange Meeting (TIM). The contractor shall provide a final Material and Equipment List or BOM to the Government prior to the start of Cut-Over to ensure proper and accurate property transfer. The Material and Equipment List/BOM will include, at a minimum, the following fields: name, part number, item description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

The contractor shall coordinate all shipments with the Lead Logistician aboard N&I. The contractor shall mark the equipment in accordance with MIL-STD 130 and provide the Government with a completed Asset Shipping Report (ASR) and Form DD1149 for all new equipment delivered under this contract. The DD1149 Form shall contain, at a minimum, an item description, serial number, part number, unit of issue, quantity received, unit price, and total cost. The contractor shall coordinate a turnover schedule with the gaining command and perform a serialized "item by item" inventory with the Supply Officer, or designated representative, and obtain a signature for the delivery of the equipment. As part of the equipment delivery, the contractor shall provide the final Material and Equipment List.

#### 4.2 MATERIALS EQUIPMENT

The contractor shall provide and deploy all materials and equipment required to transport, install, configure, provision, and test the systems and subsystems delivered under the task and delivery orders in accordance with established industry practices and Original Equipment Manufacturer's (OEMs) methodologies, procedures, and sustainment support activities.

#### 5 SPECIFIC TASKS

#### 5.1 ENGINEER, FURNISH, INSTALL, SECURE, TEST

The contractor shall be responsible to EFIST and make operational a Regional UC System and a Base Area Network (BAN). Each system shall be completely functional with the required programming, interfaces, hardware, software, software licenses, ancillary equipment, parts, databases, and material for all identified users, services, and requirements. The modernized systems and associated subsystems shall retain all functionality of the existing systems and provide additional functionality to meet the requirements specified in the site-specific requirements specification. To ensure compliance with all requirements, the contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all identified requirements to the Performance Requirements Summary (PRS). The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, and demonstration) to validate the contractor's proposed system design for Government acceptance. All proposed systems configurations will be baselined in accordance with PM N&I, Configuration Management Plan (CMP). The contractor shall repurpose/reutilize existing equipment to the maximum extent practical based on their solution. In addition, the contractor shall EFIST and make operational any ancillary equipment that is required to support this effort such as grounding, firmware, interfaces, patch panels, applications, and similar equipment necessary to deliver a complete and useable solution.

The contractor shall use, to the greatest extent possible, enterprise software licenses for Commercial Off-the-Shelf (COTS) software products available from the Department of the Navy (DoN) Enterprise Software License (ESL) agreements for any software required to support their proposed solution. The DoN ESL Team is aligned under Program Manager, Customer Support and Strategic Sourcing (PMM-172) as a joint Navy and Marine Corps strategic sourcing effort to consolidate, centralize, and streamline the acquisition and management of DoN ESL Agreements. Enterprise software Licenses agreements are available for the following applications: Microsoft, Oracle, Avaya, Symantec/Veritas, ActivIdentity, CISCO SMARTnet, VWware, Solarwinds, and Red Hat. The contractor will coordinate the use of available enterprise software license agreements with the NCI Program Office after contract award.

The contractor shall be responsible for replacing and correcting any hardware, software, applications, data, configurations, material, or services omitted and/or installed in contractor error without any extra expense or delay to the Government. The contractor shall not be responsible for replacing or correcting existing Government property, software, or facility problems, outside the scope of this PWS.

#### 5.1.1 REGIONAL UNIFIED COMMUNICATIONS

The Regional UC solution shall provide business voice capability to each end-user in those locations where the solution will be deployed. MCB Quantico shall include all Non-classified Internet Protocol Router Network (NIPRNet) users on MCB Quantico, users at Indian Head, MD, Tech Parkway, Quantico Corporate Center, and Barrett Heights in Stafford, VA,. The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911)

services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

#### 5.1.2 BASE AREA NETWORK

The BAN consists of a Distribution Layer and an Access Layer. It shall provide for the transportation of voice, video, and data on all locations where the solution will be deployed. There are 8 Area Distribution Nodes (ADNs) located on MCB Quantico; Bldgs. (1999, 24204, 3255, 3300, 2076, 26100, 27282, and Russell Knox). These nodes shall be connected with a Dense Wavelength Division Multiplexing (DWDM) system with a Reconfigurable Optical Add/Drop Multiplexer (ROADM) located at each node. All circuits traversing the installation shall use the DWDM. Circuits shall be transitioned off the SONET network. The BAN shall satisfy the requirements of Section 8. The BAN has no external connectivity but gets core connectivity through the Core Nodes (CNs) and the Installation Gateway.

DWDM technology will provide backbone transport connectivity at MCB Quantico. SONET will be removed.

#### 5.1.3 FACILITY/NODE PREPARATIONS

#### 5.1.3.1 POWER SYSTEMS

The Contractor shall not be required to include power as a feature of their solution, but will identify any necessary power requirements during the VSS in a report to the Government.

#### 5.1.3.2 AUXILIARY INFRASTRUCTURE

Auxiliary Infrastructure is comprised of the equipment and components that supplement the primary systems and subsystems provided in the proposed solution. This equipment consists primarily of equipment racks/cabinets, ladder rack, cable tray, re-enforcing structures, that house the electronic components installed as a part of the overall modernization effort at each DN. All requirements for auxiliary infrastructure will be verified during the VSS.

#### 5.2 CYBERSECURITY

The contractor, in coordination with the NCI Project Manager and NCI Cybersecurity Representative, shall perform all recommended Cybersecurity configuration settings, programming, and configurations of components being provided to ensure compliance with all cyber requirements. At a minimum, the contractor shall provide the following items for Government review: System Configuration Hardware/Software Baseline, Network/Security configurations, Ports, Protocol, Services, and Management (PPSM), system and equipment warranties, software license agreements, software upgrades, and all documentation required to support the Assessment and Authorization (A&A) and Configuration Control Board (CCB) processes. Refer to the Table 2 - Contract Deliverables Matrix for specific Cybersecurity requirements. All products must be current on the DoDIN Approved Product List (APL). The system shall be designed and implemented with hardware/software that is compliant with and fielded in accordance with the Joint Interoperability Test Command (JITC) approved configuration and Military Unique Deployment Guide (MUDG).

#### 5.2.1 JOINT INTEROPERABILITY TEST COMMAND CERTIFICATION

All proposed UC system hardware and software shall have received JITC certification in accordance with the latest version of the DoDI 8100.4, Unified Capabilities before the system can connect to the DoD Information Network (DoDIN). All proposed system hardware and software shall have a valid JITC certification by the Test Readiness Review (TRR). Connection to the DoDIN will not be authorized until certification is updated and the system is fielded in accordance with the certification letter and applicable JITC deployment guides.

Non-certified or expiring JITC certified systems may be proposed provided a road map and Plan of Actions and Milestones (POA&M) is included in the offeror's proposal indicating that JITC certification will be achieved prior to TRR. Additionally, the offeror shall provide a mitigation plan in the event the proposed system does not achieve the required JITC certifications by TRR.

# 5.2.2 RISK MANAGEMENT FRAMEWORK FOR DoD INFORMATION TECHNOLOGY

Before the proposed hardware and software solution can be connected to the DoDIN via the MCEN, all system hardware, software, and ancillary equipment shall be Cybersecurity compliant IAW the latest version of the technical controls mandated by *DoDI 8510.01*, *Risk Management Framework* (*RMF*) for *DoD Information Technology* (*IT*). In addition, the contractor shall assist the Government by providing, developing, and submitting any necessary system documentation, settings, specifications, and hardening (application of Security Technical Information Guides (STIG), vulnerability scans, testing and installing patches, and vulnerability mitigation) required to update the Government Assessment and Authorization (A&A) package and entry into the Marine Corps Certification and Accreditation Support Tool (MCCAST v2). The delivered system will be incorporated to the BAN/LAN Site Accreditation following installation.

# 5.2.3 SECURITY AND TECHNICAL IMPLEMENTATION GUIDES, SECURITY REQUIREMENT GUIDES, AND ASSURED COMPLIANCE ASSESSMENT SOLUTIONS SCANS

The Contactor shall apply all applicable Defense Information Systems Agency (DISA) STIGs and Security Requirement Guides (SRGs) to all applicable hardware and software. This shall require the contractor to perform system vulnerability scans, system setting adjustments, software updates/patches, or system hardware/software reconfigurations and hardening. The contractor shall provide applicable STIG checklists; vulnerability scans with the DoD-approved Assured Compliance Assessment Solutions (ACAS) scanning tool, and a POA&M with mitigations and estimated completion dates for all open Cybersecurity findings. ACAS Vulnerability findings are defined as Critical/High = Category (CAT) I, Medium = CAT II, and Low = CAT III. STIG findings are defined as follows: CAT I, CAT II, and CAT III. All CAT I vulnerabilities shall be remediated or mitigated. All CAT II/III vulnerabilities must be remediated if a patch is available and STIG/SRG settings are configured without affecting system functionality. If a patch/STIG/SRG setting is not available or affects operational functionality, an acceptable mitigation (i.e., current processes or measures that reduce vulnerability exposure) must be provided in the POA&M with recommended completion dates.

All ACAS scans will be accomplished using the DISA Field Security Operations (FSO) scan policy Government Furnished Information (GFI) and latest ACAS plugin definitions available on the DoD Patch repository at the time scans are conducted. Contractor shall ensure all ACAS scans are

completed with proper credentials and IAW the latest policies and guidelines as defined by DISA and/or the U.S. Marine Corps. All automated and manual STIG/SRG settings shall be applied.

#### 5.3 CONTRACT PROJECT PHASES

The accepted Request for Proposal (RFP) design constitutes the Conceptual Design baseline and is the starting point for every contract project.

This section identifies the Project Phases and Project Milestones/Reviews associated with this contract. These milestones include, but are not limited to, all the system technical reviews and audits ensuring the engineered design satisfies the PRS outlined in Part 8 of the PWS, Site Specific Requirements, and NCI Systems Engineering Plan (SEP). This timeline represents "Tailored Conformance" to meet a Systems Engineering Approach as directed by DoD guidance. The contractor's Contract Schedule shall include, at a minimum, all of the events identified in this section, beginning with Site Task Award, to mitigate potential adverse impacts to cost, performance, and schedule.

The NCI Contract Notional Timeline depicted in Figure 1 identifies the sequence of events for the contract.

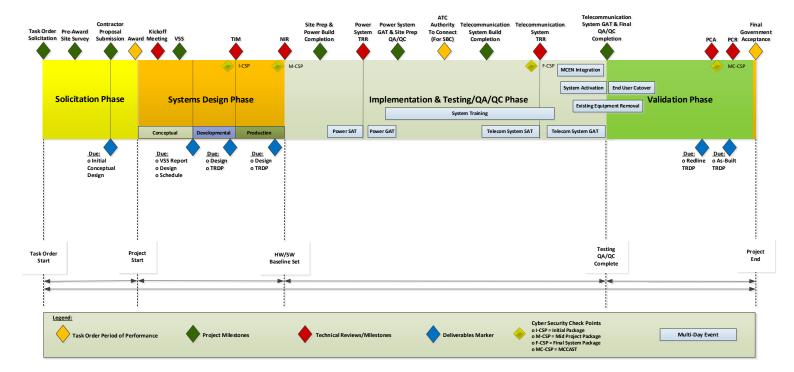


Figure 1 – Notional Timeline

#### 5.3.1 PROJECT MILESTONES AND EVENTS

The Notional Timeline depicted in Figure 1 coincides with the expected Contract events beginning with the Contract Solicitation. Mapping these design stages to NCI programmatic, Implementation Phases are as follows.

#### 5.3.1.1 CONTRACTOR PROPOSAL SUBMISSION

The contractor shall submit a proposals within 30 calendar days from receiving the Request for Proposal from the Government. The proposal shall contain the contractor's proposed conceptual design and architecture, pricing, materials and equipment list, project plan, and project timeline including all the events identified in the notional timeline (durations, dates, and the proposed period of performance).

#### 5.3.1.2 SYSTEM DESIGN PHASE

The System Design Phase is initiated with the Award, signifying the start of the period of performance. Subsequent to the Award, the Government shall hold a Post Award Kick-off meeting. This Phase shall also include a contractor Verification Site Survey (VSS) to validate assumptions made on the information provided as part of the PWS. Throughout the duration of this Phase, the contractor shall deliver a detail system design and Technical Data Package (TDP) to be reviewed at designated technical reviews.

The contractor shall also deliver Cybersecurity documentation prior to the associated technical review events IAW the timelines identified in Table 2 - Contract Deliverables Matrix.

**Table 2 – Contract Deliverables Matrix** 

T					
Item Number	Item Title	Due	Deliverable Format		
1	Project Schedule	Proposed: fifteen (15) Calendar Days after the start of the VSS Monthly: NLT the last day of every month (Ad hoc Project Schedule Reports may be Requested)	MS Project 2016 and PDF		
2	Conceptual (Proposed) Design	Revised: NLT 15 (15) calendar days after the VSS	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF		
3	Verification Site Survey Report	NLT fifteen (15) calendar days after the VSS.	VSS Report: Contractor Format (PDF or Microsoft Office Word 2016 or later)		
4	Technical Data Package	Developmental: NLT fifteen (15) calendar days prior to the TIM. Production: NLT fifteen (15) calendar days prior to the NIR. Red Line: NLT the completion of Cutover. As-Built: NLT fifteen (15) calendar days prior to the PCR.	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF M&E List: Microsoft Office Excel 2016 or later HW/SW Baseline: Microsoft Office Excel 2016 or later		
5	RTM	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)		
6	SAT Plan	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen e(15) calendar days prior to the NIR. Final: NLT fifteen(15) calendar days prior to the TRR.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)		
7	ACAS Scans Schedule	Initial: NLT fifteen (15) calendar days prior to the TIM. Final: NLT fifteen (15) calendar days prior to the NIR.	Contractor Format (PDF and Microsoft Office Project 2016 or later)		
8	Cyber Security POA&M	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the Telecommunications Systems TRR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)		
9	Technical Controls	Initial: NLT fifteen (15) calendar days prior to the TIM.	Contractor Format (PDF or Microsoft Office Excel 2016 or later)		

Item Number	Item Title	Due	Deliverable Format
		Revised: NLT fifteen (15) calendar days prior to the NIR.	
10	Safety Assessment Report (SAR)	NLT fifteen (15) calendar days prior to the NIR.	Contractor provided format (PDF and Microsoft Office Excel 2016 or later)
11	Site Prep TPTCTS	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
12	Telecommunications TPTCTS	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
13	Cutover Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
14	IUID Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
15	STIG/SRG Check List	Current: NLT fifteen (15) calendar days prior to the Power Systems TRR.	Native format
16	ACAS Vulnerability Scans	Current: NLT fifteen (15) calendar days prior to the Power Systems TRR.	.nessus File format
18	Completed Telecommunications System TPTCTS	NLT ten (10) calendar days after the Telecommunications System GAT.	Government provided format (Microsoft Office Word 2016 and PDF)
19	Warranty Procedure Guide	NLT fifteen (15) calendar days prior to the PCA.	Contractor Format (PDF)
20	Installations, Operations and Maintenance, and SW User Manuals	NLT fifteen (15) calendar days prior to the PCA.	Contractor Format (PDF)
21	MCCAST Import Template	Current: NLT fourteen (14) prior to the PCR	Native format
22	Asset Shipping Report	An ASR shall be provided with each equipment shipment to ES&D.	Government-provided Format (Microsoft Office Excel 2016 or later)

The System Design Phase consists of three design levels: Conceptual, Developmental, and Production. (Reference Section 5.7.1.1 – Product Drawings and Associated Lists)

<u>Conceptual Design</u> provides the framework for the allocated baseline by defining the system and subsystem architectures and is delivered or established at proposal. The design shall include hardware and software lists, depiction of critical support system interfaces and any underlying services architectures as well as identification of all system CNs, DNs, and EUBs to ensure that the proposed system has an expectation of being operational, feasible, and satisfies the site-specific requirements.

**Developmental Design** describes the integration approach and is used to evaluate and validate that the design meets the required performance. This information is used to produce materiel for test and for the analytical evaluation of the inherent ability of the design approach to attain the required performance. This design level shall include but not limited to any updates associated with the Conceptual Design, all impacted building floor plans (both top and elevation views), wire, fiber, power, and grounding routing details, all rack/cabinet and ladder tray drawings. These design components shall be delivered prior to the Technical Interchange Meeting (TIM) for technical review and adjudication.

**Production Design** is a detailed and complete design that captures any updates to the Conceptual and Developmental Designs and shall include but not limited to all components, recommended spares, and applicable repair parts. The production design shall also include all applicable detailed wiring and cabling schematics. These design components shall be delivered prior to the Non-Developmental Item Integration Review (NIR) for technical review and adjudication.

#### 5.3.1.2.1 AWARD KICK-OFF MEETING

The Kick-off meeting shall be a review and discussion of the documents provided in the contractor proposal submission and provide a forum for both the Government and contractor to reach consensus on all project implementation expectations. Government will provide applicable deliverable templates to contractor. The contractor shall deliver their proposed project schedule at the kickoff meeting.

#### **5.3.1.2.2 VERIFICATION SITE SURVEY**

The contractor shall proceed to the place of performance to conduct a Verification Site Survey (VSS) within twenty (20) calendar days of Contract Award. The purpose of the VSS is to provide the contractor(s) an opportunity to validate assumptions made on the site information provided in the PWS. Coordination of the VSS visitation shall be facilitated by the NCI Project Manager, the contractor, and the site TSO. The VSS Report, Revised Conceptual (Proposed) Design, and the Baseline Project Schedule shall be provided to the Government IAW the criteria and timeline identified in Table 2 - Contract Deliverables Matrix. The VSS Report shall provide an accurate description of the existing conditions and identify any potential discrepancies or changes to the proposed design. Upon Government review and acceptance, authority to proceed to Developmental Design shall be granted and the Baseline Project Schedule established.

#### 5.3.1.2.3 TECHINCAL INTERCHANGE MEETING

The TIM is an informal meeting that fosters the exchange of ideas through open discussion and participation. The purpose of the TIM is to provide a forum for problem solving and information sharing between Government and contractor personnel that encourages cooperation and fosters

collaboration in resolving technical and engineering deficiencies and/or discrepancies. TIMs are to be conducted when necessary as determined by the COR/Project Manager. The contractor shall conduct at least one on-site TIM at the place of performance to adjudicate the results of the Government's review of the Developmental Design.

#### 5.3.1.2.4 NON-DEVELOPMENTAL ITEM INTEGRATION REVIEW

An NIR is a multi-disciplined product and process assessment to ensure the system under review can proceed into the Implementation & Testing and Quality Assurance (QA)/Quality Control (QC) Phase. This review assesses the TDP artifacts and reviews the Production Design. The contractor shall participate in a Government lead NIR IAW the NCI SEP. The NIR is a formal milestone review requiring Government acceptance. Successful completion of the NIR will establish the product baseline. The contractor shall demonstrate that the Detailed Design satisfies the specifications identified in the Contract Solicitation and the Site Specific Requirements (SSR). The contractor shall present a test and system cutover for the purpose of performing design verification and validation. The contractor shall also prepare and provide a Safety Assessment Report (SAR). The SAR shall identify the contractor's mitigation of any safety and environmental hazards identified in the NCI Programmatic Environment, Safety and Occupational Health, and Evaluation (PESHE).

#### 5.3.1.3 IMPLEMENTATION, TESTING, AND QA/QC PHASE

The Implementation, Testing, and QA/QC Phase shall begin with the acceptance of all deliverables associated with the NIR milestone. The contractor shall execute the system build to the accepted Production Design, beginning with Site Preparation and Power System installations, followed by installation and integration of the telecommunications systems components. The contractor shall provide continuous oversite of all subordinate contractors in accordance with all aspects of program management.

#### 5.3.1.3.1 SITE PREPARATION BUILD COMPLETION

This milestone incorporates the procurement and installation of all required system infrastructure, including, but not limited to, system racks, cabinets, and ladder racking. Upon completion of this milestone, the contractor shall ensure the installation complies with all local and regulatory requirements.

#### 5.3.1.3.2 SYSTEMS ACCEPTANCE TEST AND GOVERNMENT ACCEPTANCE TEST

Test and Evaluation (T&E) is an integral part of the systems engineering process. System/Subsystem Testing demonstrates the delivered solution fulfills the requirements and specifications of the PWS. Testing shall be performed in two phases, the System Acceptance Test (SAT) and the Government Acceptance Test (GAT). Separate SAT/GAT events will be performed for Telecommunications systems. SAT shall be contractor-performed testing that occurs prior to TRR. The Government will observe the SAT.

It is expected that the contractor shall install and test system/subsystem components without connection to the DoDIN/MCEN. As a result, the contractor may not be able to complete all required system and sub-system testing during SAT. It is expected that systems and subsystems requiring MCEN connection are hardened. The GAT leverages the final SAT documents provided by the SI to determine testing that demonstrates system-wide functionality of hardened devices. The government

will attend any contractor(s) scheduled SAT testing events to ensure test data integrity. GAT will be the final test event and all connections and interfaces shall be established during this time.

### 5.3.1.3.3 TEST READINESS REVIEW

The TRR is a significant multi-disciplined technical review designed to ensure the system and/or subsystem under review is ready for Government testing and functions as the transition from SAT to GAT. The TRR assesses test objectives, test methods and procedures, test scope, and safety to confirm required test resources have been properly identified, made available, and coordinated to support planned tests. The TRR verifies the traceability of planned tests through the use of the RTM. It determines the completeness of test procedures and their compliance with test plan descriptions. The TRR also assesses the system under review for development maturity, cost/schedule effectiveness, and risk to determine readiness to proceed to formal testing.

### 5.3.1.4 VALIDATION PHASE

The Implementation Phase shall transition into the Validation Phase upon successful completion of the Telecommunications System GAT and the final QA/QC inspection.

### **5.3.1.4.1 CUTOVER**

Cutover is the process of migrating existing circuits and end-user services (voice and data) from legacy systems to the newly installed contractor-provided solution. The contractor shall develop a detailed Cutover Plan to support cutover. The Cutover Plan shall provide the approach, schedule, required Government resources, system outages, and fall back plan.

The contractor shall be responsible for performing a flash cutover, unless deemed impractical due to technical, logistical, or base operational constraints, of all services identified in this document. This shall include capturing and validating existing system's database and subscriber information, transferring information, configuring, and deploying the new system to the end-user device. This information includes, but is not limited to, dial plans, subscriber features and capabilities, call lists, settings and configurations. The cutover shall also include hardware and patching of existing subscribers and services inside the closets and at the end user locations. Cutover methods utilized shall minimize service-affecting outages and be described in detail in the Cutover Plan.

The contractor shall conduct service-affecting cutovers of systems outside normal duty hours with minimal downtime as designated by the TSO. During system cutover, the contractor shall establish, staff, manage and support all on-site help desk functions and responsibilities to include customer calls, creating trouble tickets and logs, tracking reports for active and closed tickets, answering subscriber questions and correcting deficiencies, and coordinating with the TSO to prioritize trouble tickets. An electronic and paper copy of the Trouble Ticket Log shall be maintained on-site for Government inspection during cutover. The Trouble Ticket Log shall be turned over to the Government after resolution and closure of all Trouble Tickets directly attributable to the contractor's solution.

### 5.3.1.4.2 SYSTEM OUTAGES

Any work requiring system downtime shall occur during off-duty/weekend hours, be kept to a minimum, and not occur without specific acceptance from NCI Project Manager and the site TSO. The contractor shall submit a system recovery/fallback plan for review and acceptance for all scheduled outage. The system recovery/fallback plan shall be provided as part of the Cutover Plan.

# 5.3.1.4.3 REMOVAL OF EXISTING EQUIPMENT

Upon Government approval, the contractor shall decommission, disconnect, de-install, dismantle, and remove all displaced core switching equipment. The contractor shall remove any system anchors, brackets, and racks protruding from the floors and/or walls. The contractor shall ensure that no active service is disrupted during the switch or equipment removal and shall be liable for any costs incurred by the Government to restore disrupted service. All replaced core switching equipment shall be removed and properly disposed of by the contractor.

Existing equipment identify by the Government for reuse and redistribution will be turned over to the Program Office upon removal. Disposal of all equipment shall be coordinated through the TSO and the Installation's Defense Logistics Agency - Disposition Services (DLA-DS) to ensure compliance with Government disposal procedures. The contractor shall provide the Government with a document identifying all replaced core switching equipment. At a minimum, the following fields shall be included: name, part number, description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

### 5.3.1.4.4 PHYSICAL CONFIGURATION AUDIT

The Physical Configuration Audit (PCA) shall be conducted to determine conformance of the as built configuration to the product baseline with the TDP. The PCA shall be a joint audit conducted by the contractor and Government. The results of the audit shall be documented by the contractor and adjudicated by the Government before Project Closeout Review (PCR) for inclusion in the As-built TDP.

### 5.3.1.4.5 PROJECT CLOSEOUT REVIEW

The Project Closeout Review (PCR) shall be conducted to verify all project requirements have been satisfied, all deliverables have been submitted to the Government, and all Government administrative actions have been completed.

#### 5.4 PROJECT ADMINISTRATION/MANAGEMENT

### 5.4.1 PROJECT PLAN

The contractor shall establish, deliver, and ensure that a Project Plan remains in effect throughout the project period of performance. At a minimum, the Project Plan shall focus on and align with the Project Schedule. The Project Plan should address areas such as Safety, Configuration Management, and Risk Management. The Project Plan shall clearly demonstrate an understanding of the project timeline and associated milestones for the project and how the contractor plans to satisfy the requirements of the PWS. The Project Plan shall address a management approach and highlight actions that will be taken to mitigate risk to cost, schedule, and performance, highlight any possible positive or negative impacts, and provide details on the process to deal with unforeseen site conditions, schedule slips, or other problems of program risks. The Plan shall describe the contractor's approach to Resource Management and shall identify the project team.

# 5.4.2 PROJECT SCHEDULE

The contractor shall deliver and maintain an accurate and up-to-date project schedule that accurately reflects the current status of the project progress and resources. To ensure proper management and accuracy of the project schedule, the contractor shall coordinate and consult with relevant stakeholders throughout the course of the project. The project schedule shall include all significant events, detailing each sequence of work that should be completed, identify major milestones and tasks from start to completion of the project, as well as include all critical path events. At a minimum, the project schedule shall identify the following columns: Start, Finish, Baseline Start, Baseline Finish, Duration, and Percent Complete for each task, to include the associated task paths (successors, predecessors, etc.). The contractor shall deliver the proposed Project Schedule within twenty (20) calendar days after the start of the VSS. The Government will then have fifteen (15) calendar days to review and coordinate with the contractor any necessary corrections and updates in order to establish a baseline schedule. The accepted project schedule will then become the baseline and will not change throughout the duration of the project, except in the event of contract modifications that impact the project schedule (scope increase/decrease, etc.).

The contractor shall reference and adhere to the guidance in the NCI Schedule Management Plan.

### 5.4.3 MEETINGS

The contractor shall plan, host, attend, coordinate, support, and conduct meetings, formal reviews, conferences, and audits required during the period of performance of this contract. Meetings shall be conducted at either Government or contractor facilities, or via conference call/video teleconference. The contractor shall prepare agendas and meeting presentation materials for each meeting. The contractor shall also provide minutes and reports following each meeting. The minutes must include a summary of all action items, dates assigned, responsible parties, and estimated completion dates of testing.

### 5.4.3.1 PROJECT STATUS REVIEW MEETINGS

The contractor shall plan, host, coordinate, and conduct a Project Status Review (PSR) each week throughout the period of performance for the purpose of reviewing and updating the Government on the current status of the project. To support the administration and management of the Weekly PSR, the contractor will provide a Meeting Agenda, Action Items List, and Project Schedule two (2)

calendar days prior to the execution of the Weekly PSR. In addition, the contractor shall provide meeting minutes NLT two (2) calendar days after the PSR.

The Meeting Agenda will address, at a minimum, the following areas of concern:

- 1. Introductions/Documentation of Attendance
- 2. Summary of Week's Activities
  - a. Issues encountered and resolutions taken to address
  - b. Issues encountered and still unresolved
  - c. Completed activities for the week
- 3. Activities Planned for the following week
- 4. Overall Project Status Review
- 5. Action Item/Register Review
- 6. Review Deliverables Status
- 7. Review any changes to the TDP and Design Drawings (Redline Drawings)
- 8. Materials Status
  - a. Discuss preformed Quality Reviews and the results
- 9. Coordination Resolution of any identified deficiencies
- 10. Discussion of Upcoming Significant Events; possible issues and mitigations (as needed)
- 11. Project Schedule Review relative to the Baseline Project Schedule for thirty (30) calendar days before and thirty (30) calendar days after the PSR
- 12. Coordinate any staffing updates to the project team(s)
- 13. Additional Questions/Open Forum
- 14. Meeting Summary/Assigned Action Item Review.

An Action Item List shall be maintained and delivered as part of the contractor's weekly progress. Closed action items shall only be presented one time. The Action Item List shall contain the following tabs at a minimum:

- 1. Meeting Attendees
- 2. General
- 3. Site Prep
- 4. Data
- 5. Voice

- 6. Schedule Review
- 7. Deliverable Review
- 8. Closed
- 9. Risk Log
- 10. Personnel
- 11. Shipping
- 12. Damage Incident Log
- 13. Stakeholder Contact Info
- 14. Risks Matrix

### 5.4.4 OUALITY CONTROL

The contractor shall develop and maintain an effective quality control program to ensure services are performed in accordance with this PWS. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor's quality control program is the means by which he assures himself that his work complies with the requirement of the contract. The contractor shall provide a written Quality Control Plan (QCP) with the IDIQ proposal. Any changes arising from this effort will be incorporated into any subsequent award. Post-award changes to the QCP shall be submitted to the Contracting Officer and COR within five (5) calendar days of the affected change. The Contracting Officer will provide written acceptance of any proposed changes after delivery of the revised QCP. In addition, the contractor shall incorporate the following minimum elements into the QCP.

- Definition of contractor quality control management lines of responsibility
- Quality Control Management System Process
- Internal Design Review/Change Control Process
- Internal Document Control Process
- Process for Testing
- Process for the execution of Corrective Actions
- Process for maintaining Quality Assurance records throughout the project lifecycle
- Process for performing random internal Quality Control audits.

# 5.4.4.1 QUALITY ASSURANCE

The Government will evaluate the contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan (QASP). This plan is primarily focused on what the Government must do to ensure that the contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied, the frequency of surveillance, and the minimum acceptable quality levels. The contractor shall provide an assessment detailing their conformance to both the technical and programmatic management of the contract.

### 5.5 LOGISTICS SUPPORT

The contractor shall provide dedicated logistic support to plan and coordinate efforts that integrate logistics and life cycle support considerations into the design of the system. The effort shall be conducted as an integral part of the development, integration, and test processes to define the range and depth of the required support, to develop supportability data products, and to address all applicable elements of logistics.

### 5.5.1 LOGISTICS MANAGEMENT

A joint Government/contractor coordination shall be established to monitor the status of the program implementation. The coordination will be conducted to address logistic matters, schedules, warranty, and PWS performance. The Government will oversee and monitor the contractor's implementation of applicable logistics elements during the project period of performance and throughout the warranty period. The Government has the right to request status of what's in place in and in storage at any time during the contract.

### 5.5.2 ITEM UNIQUE IDENTIFICATION

The contractor will develop an Item Unique Identification (IUID) Plan and implement specific IUID markings, in accordance with Defense Federal Acquisition Regulation Supplement (DFARS) 252.211-7003, DFARS 252.245-7001, SECNAVINST 4440.34, MIL-STD-130N to include recommendations for marking of spare assemblies and subassemblies, components, and parts below \$5,000 and highly pilferable to include recommendations for marking of spare assemblies, subassemblies, components, and parts below \$5,000. The Government shall make the final determination for IUID marking of items below \$5,000. All spare parts, secondary repairable items, and consumables that exceed \$5,000 and Government selected items under \$5,000 will be marked with the item IUID prior to delivery to the Government. The IUID marking shall be incorporated into existing data plates when possible. Bar coding and the two dimensional IUID data matrix shall be machine-readable with common optical scanning devices and be accompanied by the corresponding human readable markings when practical. All 2D data labels shall be permanently affixed and shall ensure its readability during normal operational use. The plan shall also describe the marking process and identify marking locations for each item identified. The contractor will identify the location of approved IUID markings within all drawings.

The contractor will load all IUID data into the DoD IUID Registry NLT fifteen (15) calendar days after completion of the PCA. Additionally, the contractor shall load all serial items to include IUID data into invoice Receipt Acceptance and Property Transfer (iRAPT) formally known as Wide Area Work Flow (WAWF). The contractor will provide an IUID Marking Activity and Verification Report for each system and spares delivered to the Government. The IUID Marking Activity and Verification Report will include a listing of all IUID assigned numbers by Contract Line Item Number (CLIN), Sub-Line Item Number (SLIN), or Exhibit Item and contain the model number, part number, serial number (if applicable), and parent/child relationship.

### 5.5.3 PARENT END ITEM DATA PLATE INFORMATION

The contractor will use Table IV (UII Construct 1 or 2) and Figure 1 of MIL-STD-130N as a guide when developing the NCI data plate. The Parent End Item 2D matrix shall contain human and

machine-readable markings and shall be no less than 1 cm wide and no less than 40 percent contrast. The minimum data plate information for NCI Parent End Items are as follows:

- 1. Nomenclature
- 2. NSN (if available)
- 3. Design Activity: (MFR ID Cage Code)
- 4. Serial Number
- 5. Government Ownership Designation: U.S. Property
- 6. Contract Number
- 7. Two-dimensional IUID data matrix
- 8. Unique Item Identifier (UII).

### 5.5.3.1 SUB ASSEMBLY DATA PLATE INFORMATION

The contractor will use Table IV (UII Construct 1 or 2) and Figure 1 of MIL-STD-130N as a guide when developing the NCI sub-assembly data plate. The Sub-Assembly 2D matrix shall contain human and machine-readable markings and shall be no less than 1 cm wide and no less than 40 percent contrast. All applications must be permanently affixed, as well as human and machine-readable when the necessary space is available. For sub-assembly items that do not currently utilize a data plate, the contractor will refer to MIL-STD-130N to develop best business practices for a display of the data elements below. The IUID data plates shall display the following minimum information:

- 1. NSN (if available)
- 2. Part Number
- 3. Serial Number
- 4. Manufacturer Cage Code
- 5. 2-dimensional IUID data matrix
- 6. Unique Item Identifier.

### 5.5.4 WARRANTY

The contractor shall provide a full, unlimited one-year warranty for all contractor provided hardware/software, materials, and workmanship. The warranty shall begin immediately upon Final Government Acceptance of all items delivered under this contract.

The contractor shall establish and maintain a warranty performance system that identifies and documents all items to be warranted under this contract. Each item warranted shall be indexed and identified by serial number, model number, part number, Unique Identification (UID), warranty period, Original Equipment Manufacturer (OEM), and date of acceptance by the Government. All pertinent data required for the Government to pursue warranty provisions, remedy, and relief for each item shall be provided to the Government in the form of a Warranty Procedures Guide and shall be maintained by the contractor for the duration of the warranty period. All warranty claims and transactions shall be documented and made available for Government review upon request or during scheduled meetings and/or reviews throughout the life of all warranted items used in all production phases of the NCI Program.

All costs for shipping and handling for warranted items from and to the field activity are the responsibility of the contractor. The warranty period will cover all hardware, software/firmware, materials, installation services, applicable Software (SW)/Cyber Security (CS) updates, and workmanship provided for the overall system design solution. Hardware/Equipment warranty will include repair and return services for all hardware/equipment replacement that will be configured with software/firmware and ready to install upon receipt.

#### 5.5.5 ENVIRONMENTAL SAFETY AND HEALTH

### 5.5.5.1 SYSTEMS SAFETY

The contractor shall identify all hazardous material associated to the newly installed equipment and deliver the applicable Material Safety Data Sheet (MSDS) to the Government. The contractor shall identify and evaluate safety and health hazards and define risk levels that manage the probability and severity of all hazards associated with development, use, and disposal of the system in accordance with MIL-STD-882D. Residual risks will be evaluated by the Government in accordance with Tables A-I through A-IV of MIL-STD-882D and reviewed for acceptance or further risk mitigation action IAW the PESHE.

# 5.6 GREY MARKET ITEMS, LICENSE TRANSFERABILITY, AND END USER TERMS AND CONDITIONS

In order to minimize the risk of the Government purchasing counterfeit products or unauthorized secondary market equipment, which would not be supported by the OEM, and to ensure that the Government purchases only equipment that is genuine (i.e., not counterfeit), authorized (e.g., not gray market, includes appropriate licenses, etc.), and supported (e.g., warranty and support services) by the OEM, when it submitted its proposal, the contractor, for:

Hardware: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of the proposal and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor warrants that all products provided under this contract are new. By submitting any proposal under this contract, contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of contract award. Contractor agrees that it will provide a list of serial numbers for any hardware provided or installed. Failure to provide this information may result in delays to acceptance and payment. The Government will use this information to confirm with the Manufacturer or OEM that the hardware is (1) genuine (not counterfeit) and (2) authorized hardware that has been sourced and provided in accordance with the Manufacturer's applicable policies (e.g., not gray market or diverted). If the Manufacturer indicates that the hardware meets these two requirements, the Government will notify the contractor. If the Manufacturer indicates the hardware does not meet these two requirements, the Government may reject the hardware, revoke acceptance, or pursue any other available and appropriate remedies under the contract.

<u>Software</u>: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of award and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in

accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor shall warrant that all products are new, or, in the case of downloadable software, that all software is sourced from the OEM or Authorized Reseller. By submitting its proposal contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of this contract. Contractor shall certify that it has notified the software Licensor that the United States Marine Corps (Buyer) will be the Licensee. Contractor shall have provided, with any proposal, a copy of the End User license Agreement (EULA), Terms of Service (TOS), or other similar legal instrument or agreement and warrants that all Manufacturer software is or will be licensed originally to Buyer as the original Licensee authorized to use the Manufacturer Software. Note the provisions of FAR 52.212-4(u) apply.

<u>Maintenance</u>: If, during performance of any maintenance required under this contract, the contractor provides replacement hardware or software, then the above Hardware, Software, or both requirements, including all required certification and compliance requirements, apply. The contractor shall ensure that the Government shall have full rights and entitlements to any software maintenance procured under this contract for software for which it has been identified as the original licensee or for which a license is subsequently transferred to the Government.

<u>Hardware, Software, and/or Maintenance</u>: If the contractor is not a Manufacturer Authorized Partner as of the date of the submission of its proposal then, as applicable, contractor shall submit with its proposal a document, from the Manufacturer, that identifies the Vendor by name and states the following:

- (1) That the products proposed (including hardware, software, and/or support services) are genuine (i.e., not counterfeit and not unauthorized secondary market/gray market products) (note: all items, including part numbers where applicable, shall be listed in the document);
- (2) That contractor has the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, in accordance with the applicable Manufacturer certification/specialization requirements;
- (3) That contractor will be able to receive from Manufacturer, and that Manufacturer will not deny, the support services required to support the product(s);
- (4) That contractor has the authority to transfer to the Government all appropriate software licenses associated with the product(s) at no additional cost to the Government; and
- (5) That Manufacturer will not deny required warranty support for the product(s).

The Government's remedies for the contractor's failure to provide conforming products or services consistent with the above requirements are detailed in FAR 52.212-4, with emphasis on paragraphs (a), (m), and (u).

This contract contains the clauses, terms, and conditions acceptable to the Government. Any hardware, software, or maintenance provided under this contract that contains conflicting terms or conditions, including but not limited to an EULA, Software License Agreement (SLA), Purchaser User Rights (PUR), Product User Rights (PUR), Software User Rights Agreement (SURA), Support Agreement, Maintenance Agreement, or any other vendor or OEM-specific agreements regardless of how titled or described, may be considered unacceptable. The contractor is on notice that if they

choose to submit a document containing terms and conditions, they are required to demonstrate that those terms and conditions do not conflict with, or differ from, this contract's terms and conditions, as well as any statute or regulation (e.g., FAR and DFARS). The contractor must provide the Government with an opportunity to review, modify, and approve any relevant EULA, SLA, SURA, PUR, or any other similar OEM-specific agreement, related to items procured under this contract for which the Government will be the licensee or will otherwise take title to. Compliance with this section is a component of technical acceptability for any proposal and for final project acceptance. Vendor-specific or OEM-specific terms and conditions that conflict with statutory or regulatory requirements, or are otherwise disadvantageous to the Government as noted above, may be determined unacceptable.

### 5.7 DELIVERABLES

# 5.7.1 TECHNICAL DATA PACKAGE

The contractor shall develop a TDP that contains Engineering Design Plan (EDP), design specifications, and drawings describing and depicting the solution and configuration of all systems and subsystems delivered in support of MCB Quantico's Contract. The review and acceptance process for all design specifications and drawings include a Conceptual Design data package, Developmental Design data package, Production Design data package, Redlines Drawings and As-Built Drawing package. The format for the TDP will be provided to the contractor by the Government at the Contract Kickoff meeting. The TDP shall consist of the Engineering Design Plan, Engineering Design Drawings, Systems Configuration Hardware/Software Baseline (CMDB File), and Materials and Equipment List to include Long Lead Items List. All increments of the TDP shall be delivered in accordance with the timelines identified in Figure 1 and the criteria outlined in Part 8, Technical Exhibit 2, Deliverables Schedule and IAW MIL-STD 31000B, ASME Y14.100, ASME Y14.24, ASME Y14.35M, and ASME Y14.34M.

The contractor shall document all design modifications and/or revisions to the accepted Production Design Data TDP via an ECP IAW the CMP. The ECP shall include updated the Red-line Engineering Design Package that accurately depicts the proposed engineering change. Revisions to the Redline drawings shall be provided every thirty (30) calendar days and previous drawing revisions implemented to produce an updated version. The Redline TDP will be used to perform the Physical Configuration Audit (PCA). Any changes to the redlined drawings and/or CMDB file will be recorded during the Physical Configuration Audit (PCA) and documented in the As-built TDP. The contractor shall provide the As-built TDP at the completion of the project at the Project Closeout Review (PCR) and incorporate all design changes and modifications performed during the implementation.

The contractor shall deliver a Draft CMDB File along with all other required artifacts of the TDP IAW Figure 1 - Contract Notional Timeline as part of the Technical Review Data Package for the Technical Interchange Meeting (TIM), that contains all relevant information about the hardware and software/firmware components provided in the accepted engineering design and the relationship between those components. The contractor shall deliver the Final CMDB file along with all other required artifacts of the TDP as part of the TRDP for the NIR. The CMDB provides an organized view of configuration data and a means of examining that data from multiple perspectives. The CMDB File shall identify all Configuration Items (CIs) delivered under this contract and the associated information and the interface between system components.

As part of the Materials and Equipment List, the contractor shall provide the OEM recommended minimum essential spare parts for DWDM equipment and systems provided under this PWS in order to alleviate system downtime in the event of a critical DWDM hardware failure. The minimum essential DWDM spares shall be identified separately in the Materials and Equipment List. The contractor shall restock any spare DWDM parts utilized during the modernization effort and warranty period.

#### 5.7.1.1 PRODUCT DRAWINGS AND ASSOCIATED LISTS

The contractor shall develop and deliver a TDP with the associated lists and artifacts describing and detailing the installation and configuration of all systems and subsystems delivered in this contract. This process may require the revision and update of existing drawings, and/or development of new drawings to meet the requirements of TDP drawings and associated lists. Only FINAL versions of the Conceptual, Developmental, Production, Redline, and As-Built data packages will be considered for acceptance by the government and represent fulfillment of the deliverable requirements. Existing, revised, new product drawings, and associated lists shall be used as the engineering data for procuring, controlling, using materials, parts, and assemblies whether produced in-house or supplied by the contractor. The drawings shall be used for the manufacture, assembly, provisioning, inspection, testing, and Configuration Management (CM) of the materials, parts, modules, subassemblies, assemblies, and product baseline of the hardware and software delivered in this contract. The TDP and associated lists shall not carry any proprietary markings. The contractor shall provide the necessary design, engineering, manufacturing, and quality assurance requirements necessary to enable the procurement or manufacture of an interchangeable item that duplicate the physical and performance characteristics of the original product. This must be accomplished without any additional design engineering effort or recourse to the original design activity.

- 1. The contractor shall comply with MIL-STD-3100B, "Technical Data Packages".
- 2. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 3. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 4. The contractor shall comply with the ASME Y14 Standards and lessons learned to improve the use of the Title Block, Revision Block, Sheet Numbering, and add Parts Lists and a Master Parts List Drawing Type.
- 5. The contractor shall comply with Installation Design Plan (IDP) drawing codes. (shown in Table 3).

Table 5 – Engineering Design Drawing List			
IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE
DT	DT	Drawing Tree	D, P, RL, AB
000	000	Functional Interface Diagram (Architecture Drawings)	D, P, RL, AB
010	000	Site Master Index	D
020	200	Installation Master Drawing	D, P, RL, AB
022	100	Master Parts List	D, P, RL, AB

Table 3 – Engineering Design Drawing List

IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE
023		Technical Data Summary	D, P, RL, AB
040	400	Floor Plans and Elevations	D, P, RL, AB
050	400	Antenna Layouts and Elevations	D, P, RL, AB
060	500	Simplified Block Diagrams	D, P, RL, AB
070	500	Cable Block Diagrams	D, P, RL, AB
090		Cross Connect Records	P, RL, AB
100		Distribution Frame Layout	D, P, RL, AB
110	600	Circuit Diagrams	D, P, RL, AB
120	600	Labeling Details	P, RL, AB
130	600	Patch Panel Layouts	P, RL, AB
140		Power Distribution	D, P, RL, AB
160	300	Cable Routing Layouts	D, P, RL, AB
171	700	Mechanical Assembly and Mounting Details	D, P, RL, AB
180	800	Miscellaneous Installation Details	D, P, RL, AB
190	_	Miscellaneous System Configuration Details	D, P, RL, AB
LEGEND C-Conceptual, D-Developmental, P-Production, RL- Red Line, AB-As Built			

### 5.7.2 SYSTEMS ACCEPTANCE TEST PLAN

The contactor shall prepare a Systems Acceptance Test (SAT) Plan that encompasses all system and sub-system test activities planned for each system. The following areas shall be emphasized in the SAT Plan: Test Event, Purpose of the Test, Date of Test (Start and End), Location of the Test, Need for Government Test Support, Schedule of Individual Test Events, and Test Procedures.

### 5.7.3 TEST PROCEDURES, TEST CASES, TEST SCRIPTS

The Test Procedures, Test Cases, Test Scripts (TPTCTS) aligns with the SAT and GAT Plans; identify how each system is integrated, tested, and meets the specified system requirement. The TPTCTS shall include the following: Test Event; Test Diagram; Purpose of the Test; Test Entrance Criteria; Date of Test (Start and End), Location of the Test; Need for Government Test Support; Met, Not Met, or Met With Exception Criteria; and signature block for the Test Operator and Government Witness. The Contactor shall provide TPTCTSs, as individual appendices to the SAT Plan for each system and sub-system delivered under the PWS. The Test Procedures shall include all test cases and test scripts to demonstrate all system and sub-systems meet the specific requirements of the PWS.

# 5.7.4 REQUIRMENTS TRACEABILITY MATRIX

To ensure compliance with all requirements, the Contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all requirements defined in the PRS and site-specific requirements. The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, demonstration) to validate the contractors proposed system design for Government acceptance.

### 5.7.5 CUTOVER PLAN

The contractor shall develop a detailed Cutover Plan. The Cutover Plan shall provide the overall plan including the schedule, required Government resources, system outages, and fall back plan. In addition, the plan shall contain the system specific detailed procedures.

The contractor shall develop a detailed Cutover Plan for each system and subsystem. The Cutover Plan shall be system specific and shall include, at a minimum, a sequential list of events, detailed procedures, post-Cutover testing requirements/procedures, scheduled service outages/windows, service priority based cut-sheets, and system recovery/fall back plan. The Cutover Plan including any modifications must be accepted by the Government prior to commencement of cutover. Cutover shall not begin without a Government acceptance of the proposed cutover plan.

### 6 TRAINING

### 6.1 NEW EQUIPMENT TRAINING

For all non-Cisco OEMs, New Equipment Training (NET) shall be provided by the OEM or OEM certified trainers utilizing the Government approved course of instruction. NET shall consist of courses for administrators, operators, and maintainers (when deemed necessary). The contractor shall detail their training plan in their proposal. Where eLearning or web-based courses are involved a remote registry (user name and password) must be provided to the receiving units for access to the OEM courses. The courses shall not be more than eight hours in length each day and will be conducted Monday through Friday during normal business hours. Following completion of NET, Government approved comments received from attendees (Instructor Rating Forms, End of Course Critiques) shall be incorporated into the course to yield an improved product. The training shall be of sufficient depth and shall include "hands-on" time with the system to ensure that personnel are qualified to teach others (train the trainer concept) and to safely perform tasks in the intended operational environment. Training materials shall be provided IAW the requirements in the Section 6.1 - Training and Table 4 - Training Deliverables Matrix.

Item Number	Item Title	Due	Deliverable Format
1	Training Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of training.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
2	Training Materials	NLT fifteen (15) calendar days prior to the start of training.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
3	Training Material Updates	As required.	Contractor Format

**Table 4 – Training Deliverables Matrix** 

# 6.2 TRAINING PERFORMANCE AND EVALUATION

The NCI Logistician and Manpower and Training (MPT) Lead will observe and evaluate the first instance of each training session. The contractor shall update the training materials (if applicable) in preparation for the next training event according to the comments received from attendees and MPT Lead's evaluations, recommendations, and comments. After each training event, all evaluation materials (tests, instructor rating form, and end of course critique) will be delivered to the MPT Lead for ongoing training analysis. An attendance roster shall be administered for each class substantiating each day of attendance and contain each student's basic information such as first and last name, grade, and Military Occupational Specialty (MOS) or Job Series. This roster shall also include class title(s), date and location, the name of the instructor, and the instructor's employer.

### 6.3 TRAINING MATERIALS SUSTAINMENT

The contractor shall provide any revisions to the training course materials to each student in hard and soft copy. This includes all training material and technical literature required to teach the course (train the trainer concept) which includes but is not limited to instructor lesson plans, student guides, instructional visual aids, and any tests or practical applications with answer guides.

### 6.4 TRAINING PLAN

The contractor shall prepare and provide a Training Plan to include strategy, methods, and resources to deliver training. This includes training concepts that incorporate course description, learning objectives, conditions, and standards. The Training Plan shall identify delivery methods, media type, anticipated training time, test, and evaluation. The Training Plan shall identify location, frequency, throughput, mitigated safety risks, classroom facilities, and training schedules.

### 6.5 TRAINING MATERIALS

All training material shall be prepared per MIL-PRF-29612 and the Systems Approach to Training Manual, NAVMC 1553.1. Materials that fall under parameters of Commercial Off-the-Shelf (COTS) or non-developmental items do not necessarily have to be drafted under the specific templates but have to contain the elements within SAT guidelines.

The MPT Lead shall have fifteen (15) calendar days to review the any training materials submitted by the Contractor in the Training Plan, to ensure compliance with MIL-PRF-29612 and SAT Manual (NAVMC 1553.1) guidance and to provide comments and recommendations to the Logistics Lifecycle (LCL) lead.

### 7 MANDATORY COMPLIANCE DOCUMENTS AND STANDARDS

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

- 1. Marine Corps Systems Command, Statement of Need (SON) for the Marine Corps Base Telecommunications Infrastructure (BTI), MCB Quantico: Marine Corps Systems Command, 2010.
- 2. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need, MCB Quantico: Marine Corps Systems Command, 2012.
- 3. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need (SON), MCB Quantico: Marine Corps Systems Command, 2013.
- 4. Marine Corps Systems Command/PMM-110, BTI Program Protection Plan, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 5. Marine Corps Systems Command/PMM-110, BTI Test Evaluation Strategy, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 6. USMC UC Implementation Plan v 1.0, Oct 9 2013 Unified Capabilities Implementation Plan.
- 7. MCSC/P IS&I, PMM-110/037-15, Acquisition Decision Memorandum for the Base Telecommunications Infrastructure Program, Quantico: Marine Corps Systems Command, 2015
- 8. Department of the Navy (DoN), Next Generation Enterprise Network Capabilities Production Document, v. 1.5.6, 2012.
- 9. Marine Corps Wide Area Network (WAN) Transport Implementation Plan. Version 1.01 dtd 9 September 2017.
- 10. Department of the Navy, Unified Capabilities Implementation Plan, Washington, DC Department of the Navy, 2015.
- 11. Navy UC Implementation Plan Nov 22, 2013 Unified Capabilities Implementation Plan

- 12. DoN Software Process Improvement Initiative (SPII) Guidebook Department of the Navy Policy for Acquisition of Naval Software Intensive Systems, September 16, 2008.
- 13. Department of Defense, Defense Acquisition Guidebook (DAG).
- 14. Defense Information Systems Agency (DISA) Net-Centric Enterprise Services (NCES).
- 15. Department of Defense/DISA, "JITC UC Document Depot / EMS) Letter of Clarification Template Requirements," 4 May 2016.
- 16. US DoD System Safety Program, 2009.
- 17. DoD Information Enterprise Architecture Information Enterprise Architecture, v1.1, May 2009.
- 18. DoD, Manual For The Operation Of The Joint Capabilities Integration And Development System (JCIDS), 2012.
- 19. DoD Internet Protocol Version 6 (IPv6) Standard Profiles For IPV6 Capable Products Version 6.0 July 2011.
- 20. DoD Federal Acquisition Regulation Supplement (DFARS) 252.211-7003 Item Identification and Valuation.
- 21. DoD/CIO UCF January 2013 Unified Capabilities Framework.
- 22. DoD Procurement Toolbox, 2016.
- 23. Department of Defense Architecture Framework (DoDAF) v2.0.
- 24. Department of Defense/Defense Information Systems Agency Unified Capabilities Framework, Washington: Department of Defense/Defense Information Systems Agency, 2013.
- 25. DoD, Department of Defense Unified Capabilities (UC) Extensible Messaging and Presence Protocol (XMPP) Errata-1.
- 26. DoD, Department of Defense Assured Services (AS) Session Initiation Protocol (SIP).
- 27. DoD Guidance on Protecting Personally Identifiable Information (PII).
- 28. Federal Information Security Management Act (FISMA) of 2002 Standards and guidance for minimum-security requirements for Information Systems.
- 29. Modular Open Systems Approach (MOSA), Version 2.0.
- 30. Security Configuration Guides.
- 31. Strategic Command Directive 527-1 DoD Information Operations Conditions (INFOCON) System Procedures.
- 32. VoIP STIG Version 3, Release 15, VoIP Security Technical Implementation Guide.
- 33. DISA Policy and Guidance.
- 34. DISA, DoD Telecommunications and Defense Switched Network Security Technical Implementation Guide.
- 35. Network Infrastructure STIG Version 8, Release 8.
- 36. The Certificate Issuing and Management Components family of Protection Profiles (PPs).
- 37. Information Technology Infrastructure Library (ITIL) v3 Foundation Procedures, tasks and checklists used by an organization for establishing a minimum level of competency.
- 38. USAISEC OSPDPR Outside Plant Design and Performance Requirements (OSPDPR).

- 39. USAISEC I3A-2010 Technical Criteria for the Installation Information Infrastructure Architecture (I3A).
- 40. International Building Code (IBC 2015).

# 7.1 FEDERAL PUBLICATIONS

Publication	Short Title
NIST SP 800-58	Voice Over IP (VoIP) Security
CNSSI 5000	Guidelines for VoIP Computer Telephony
OSHA 29 CFR 1910	Occupational Safety and Health Standards
OSHA 29 CFR 1910.269	Electric Power Generation, Transmission, and Distribution
OSHA, 29 CFR 1926.50	Medical services and first aid
OSHA 29 CFR 1926.403	Safety and Health Regulations for Construction
OSHA 29 CFR 1298	Occupational Safety and Health Standards, Washington:
	Occupational Safety and Health Administration, 2007

# 7.2 MILITARY UNIQUE STANDARDS

Publication	Short Title
MIL-STD 130N w/CH 1	Identification Marking of U.S. Military Property
MIL-STD-461G	Requirements for the Control of Electromagnetic Interference
MIL-STD-464C	Electromagnetic Environmental Effects Requirements for Systems
MIL-STD-810G w/CH 1	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-882D	Standard Practice for System Safety
MIL-STD-129R	Military Marking for Shipment and Storage
MIL-STD-188 124B	Grounding Bonding and Shielding
DI-MGMT-81650	Integrated Master Schedule (IMS)
MIL-HDBK-419A	Grounding and Bonding
MIL-HDBK-1013/1A	Design Guidelines for Physical Security of Facilities

# 7.3 Dod Opnav and marcorsyscom standards and references

Publication	Short Title
ASTM D3951 - 15	Standard Practice for Commercial Packaging
CJCSI 6510.01F	Information Assurance (IA) and Support to Computer Network Defense (CND)
CJCSI 6211.02D	Defense Information Systems Network (DISN) Responsibilities
CJCSI 6212.01E	Interoperability and Supportability of Information Technology and National Security Systems
CJCSI 6215.01C	Policy for Department of Defense (DoD)Voice Networks with Real Time Services (RTS)
CJCSI 6130.01F	Master Positioning, Navigation, and Timing Plan
DoD 5000.2	Operation of the Defense Acquisition System
DOD 8420.01	Commercial Wireless Local-Area Network (WLAN) Devices, Systems, And Technologies, November 3, 2017
DoDI 8100.04	Unified Capabilities
DoDI 8500.01	Cybersecurity
DoDI 8510.01	Risk Management Framework for Information Technology
DoDI 5000.64	Accountability and Management of DoD Equipment and other Accountable Property
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields
DoDI 3020.26P	Department of Defense Headquarters Continuity Plan (U)
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields
DoDI 5400.16	DoD Privacy Impact Assessment (PIA) Guidance
DoDI 4140.67	DoD Counterfeit Prevention Policy
DoDI 4161.02	Accountability and Management of Government Contract Property
DODI 8010.01	Department Of Defense Information Network (DODIN) Transport
DoDI 8320.04	Item Unique Identification Standards for Tangible Personal Property
DoDD 8500.01E	Information Assurance, Mission Assurance Category
DoDD 8500.2	Information Assurance Implementation
DoDD 5000.01	The Defense Acquisition System
UCR 2013	Unified Capabilities Requirements 2013 (UCR 2013) w/CH 2
UFC 1-300-08	Criteria for Transfer and Acceptance of DoD Real Property w/CH 2
UFC 3-301-01	Structural Engineering w/CH 3
UFC 3-310-04	Seismic Design of Buildings
UFC 3-501-01	Electrical Engineering

Publication	Short Title	
UFC 3-520-05	Stationary Battery Areas w/CH 1	
UFC 3-520-01	Interior Electrical Systems	
UFC 3-575-01	Lightning and Static Electricity Protection Systems	
UFC 3-580-01	Telecommunications Interior Infrastructure Planning and Design	
UFC 3-580-10	Navy and Marine Corps Intranet (NMCI) Standard Construction Practices	
UFC 3-600-01	Fire Protection Engineering for Facilities Change 1	
UFC 4-021-02	Electronic Security Systems	
UFC 2000 Article 64	Stationary Lead-Acid Battery Systems	
UID Guide Version 2.5	Assuring Valuation, Accountability and Control of Government Property	
USAISEC – I3A, I3MP	Fort Detrick Engineering Directorate, Technical Guide for I3A and I3MP Grounding and Bonding	
USAISEC – I3MP	Fort Detrick Engineering Directorate, Technical Guide for Installation Information Infrastructure Modernization Program (I3MP)	
USAISEC – I3A	Technical Criteria for the Installation Information Infrastructure Architecture (I3A)	
USAISEC - SIPRNet	Secret Internet Protocol Router Network (SIPRNet) Technical Implementation Criteria	
USAISEC, TR No. AMSEL-IE-IS 08014	Enterprise Systems Engineering Directorate, I3MP Guide for Facilities Requirements of Core Communications Nodes	
USAISEC, TR No. AMSEL-IE-TI 09-001-7A	United States Army Information Systems Engineering Command (USAISEC) Outside Plant Design and Performance Requirements (OSPDPR)	
MARADMIN 639/08	USMC CS Vulnerability Management (CSVM) Program	
MCBUL 5239	Marine Corps Certification And Accreditation Program	
MCO 5239.1	Marine Corps Information Assurance Program (MCIAP)	
MCBUL 5234.15B	Marine Corps Enterprise Network Microsoft Computer Operating Systems Directive For Windows 10. Server 2012 and Exchange 2013	
NAVMC 5100.1	Marine Corps Operational Safety and Health Program	
SECNAVINST 5000.2	Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System	

# 7.4 INDUSTRY STANDARDS AND REFERNCES

Publication	Short Title
ANSI/EIA 310-D	Cabinets, Racks, Panels, and Associated Equipment
ANSI/TIA 606-C	Administration Standard for Commercial Telecommunications Infrastructure
ANSI/TIA 568.0-D	Generic Telecommunications Cabling for Customer Premises
ANSI/TIA 606-C	Administration Standard for Telecommunications Infrastructure
ANSI/TIA 569-D	Telecommunications Pathways and Spaces
ANSI/TIA 942-B	Data Center Cabling Standard
ANSI/TIA-568.3-D	Optical Fiber Cabling Components
ANSI/TIA- 455-133-A	Measurement of Fiber or Cable Length Using an OTDR
ANSI/TIA/EIA-455-8-2000	Measurement Methods and Test Procedures – Attenuation OTDR
ANSI J-STD -607-C w/CH 1	Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications
ANSI Z535.4	Product Safety Signs and Labels
ANSI/BICSI 002	Data Center Design and Implementation Best Practices
ANSI/HFES 100	Human Factors Engineering of Computer Workstations
ANSI/ISEA Z358.1	American National Standard for Emergency Eyewash and Shower Equipment
ANSI/IEEE 142	Recommended Practices for Grounding of Industrial and Commercial Power Systems
ANSI/IEEE C2	National Electrical Safety Code (NESC)
IEEE 802.3	Standard for Ethernet
IEEE 802.3at	IEEE Standard for Information technology - Local and metropolitan area networks - Specific requirements - Part 3: CSMA/CD Access Method and Physical Layer Specifications Amendment 3: Data Terminal Equipment (DTE) Power via the Media Dependent Interface (MDI) Enhancements
IEEE 802.3af	IEEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Data Terminal Equipment (DTE) Power Via Media Dependent Interface (MDI)
IEEE 802.1Q	Virtual Local Area Networks (LANs)
IEEE 802.1X	Port-based Network Access Control (PNAC)
IEEE 802.3ab	1000BASE-T Gigabit Ethernet

Publication	Short Title
IEEE 802.3z	Gigabit Ethernet Over Optical Fiber and Shielded Twisted
	Pair (STP)
IEEE 802.3ae	10 Gigabit Ethernet (10 GbE)
IEEE 802.1w	Rapid Reconfiguration of Spanning Tree
IEEE 802.1s	Multiple Spanning Trees
IEEE 802.3ba	40/100 Gigabit Ethernet
IEEE RFC7348	Virtual eXtensible Local Area Network (VXLAN)
IEEE 802.11	IEEE Standard for Information Technology - Telecommunications and information exchange between systems Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications
IEEE 1100	IEEE Recommended Practice for Powering and Grounding Electronic Equipment. (IEEE Emerald Book)
IEEE 1106	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications
IEEE 1187	IEEE Recommended Practice for Installation Design and Installation of Valve-Regulated Lead-Acid Storage Batteries for Stationary Applications
IEEE 1188	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications
IEEE 1189	IEEE Guide for Selection of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications
IEEE 1220	IEEE Application and Management of the Systems Engineering Process
IEEE 1471	Recommended Practice for Architecture Description of Software Intensive Systems
IEEE 15288.2	Standard for Technical Reviews and Audits on Defense Programs
MIL-STD 31000 Rev. C	Technical Data Packages
ASME Y14.100	Engineering Drawing Practices
ASME Y14.24	Types and Applications of Engineering Drawings
ASME Y14.35M	Revision of Engineering Drawings and Associated Documents
ASME Y14.34M	Associated Lists
IETF RFC 2819	Remote Network Monitoring Management Information Base
IETF RFC 3261	SIP: Session Initiation Protocol

Publication	Short Title
IETF RFC 3410	Introduction and Applicability Statements for Internet-Standard Management Framework
IETF RFC 3418	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
IETF RFC 4346	The Transport Layer Security (TLS) Protocol, Version 1.1
IETF RFC 5709	OSPFv2 HMAC-SHA Cryptographic Authentication
IETF RFC 5798	Virtual Router Redundancy Protocol (VRRP) Version 3 for IPv4 and IPv6
IETF RFC 5905 v4	Network Time Protocol Version 4: Protocol and Algorithms Specification
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)
NFPA 1	Fire Code
NFPA 70	National Electrical Code
NFPA 70E	Standard for Electrical Safety in the Workplace
NFPA 72	National Fire Alarm and Signaling Code
NFPA 75	Standard for the Protection of Information Technology Equipment
NFPA 76	Stationary Lead-Acid Batteries
NFPA 101	Life Safety Code
NFPA 110	Standard for Emergency and Standby Power Systems
NFPA 780	Standard for the Installation of Lightning Protection Systems
NFPA 2001	Standard on Clean Agent Fire Extinguishing Systems
GR-513-CORE	Power Requirements in Telecommunications Plants
GR-1275-CORE	Central Office/Network Environment Equipment Installation/Removal Generic Requirements
GR 1502-CORE	Central Office/Network Environment Detail Engineering Generic Requirements
GR-3160-CORE-001	Generic Requirements for Telecommunications Data Center Equipment and Space, Jul 2013
UL 96A	Standard for Installation Requirements for Lightning Protection Systems
UL 467	Grounding and Bonding Equipment
UL 497	Standard for Protectors for Paired-Conductor Communications Circuits
UL 497A	Standard for Secondary Protectors for Communications Circuits
UL 497B	Standard for Protectors for Data Communications and Fire- Alarm Circuits
UL 1449	Standard for Surge Protective Devices

Publication	Short Title
EIA-625	Requirements for Handling Electrostatic Discharge- Sensitive (ESDS) Device
IFC	International Fire Code
EPA 40 CFR	Protection of Environment: Hazardous Material Inventory and Reporting, Spill Control, Spill Reporting, and Disposal
ISO/IEC/IEEE 8802-15-4	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 15-4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) specifications for low-rate Wireless Personal Area Networks (WPANs)
ITU-T G.655	Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
ITU-TG.709/Y1331	Interfaces for Optical Transport Network.
ITU-TG.798	Characteristics of Optical Transport Network Hierarchy
ITU-TG 872	Architecture of Optical Transport Networks
ITU-TG 873.1	Optical Transport Network Linear Protection.
ITU-G.694.1	Spectral grids for WDM applications: DWDM Frequency Grid
ITU-G.692.2	Amplified multichannel dense wavelength division multiplexing applications with single channel optical interfaces
LPI 175	Standard of Practice for the Design - Installation - Inspection of Lightning Protection Systems

# 8 APPLICABLE PUBLICATIONS (CURRENT EDITIONS)

The following documents apply to this Performance Specification. In the event of conflict between the applicable documents and this PWS, the PWS shall take precedence. All documents cited as compliance documents shall be considered as guidance only. Nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained. Appendix A - MCB Quantico – Site Specific Equipment provides a listing of the MCB Quantico existing nodes and equipment per site.

Appendix	Document/Reference	Purpose
A	Site Specific Equipment	Provides a listing of the MCB Quantico existing nodes and equipment per site.
В	NCI Systems Engineering Plan (SEP)	Describes the Government's systems engineering process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
С	NCI Test and Evaluation Management Plan	Describes the Government's test and evaluation process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
D	PM N&I Configuration Management Plan	Describes the Government's configuration management process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
Е	NCI Risk Management Plan	Describes the Government's risk management process.  The Contractor is expected to have a similar effort that integrates with the Government's risk reporting process.
F	BTI Life-Cycle Sustainment Plan (LCSP)	Describes the Government's sustainment process.
G	BTI Item Unique Identification (IUID) Plan	Describes the Government's equipment accountability requirements and process.
Н	PM N&I Programmatic Environmental, Safety, and Occupational Health Evaluation (PESHE)	Describes the Government's Environmental, Safety, and Occupational Health (ESOH) risk management approach (strategy, processes, and procedures) to include the integration of ESOH considerations in the acquisition and systems engineering processes.
I	Quality Assurance Surveillance Plan (QASP)	Describes the method by which the Government will monitor the Contractor's overall performance. The Contractor is expected to satisfy all the requirements of the contract by leveraging the surveillance procedures and methodologies established the QASP.
J	NCI BAN Reference Architecture	
K	NCI UC Reference Architecture	
L	NCI Network Power Reference Architecture	

### 8.1 GENERAL

The contractor shall develop an engineering design to deliver a turnkey solution that conforms to all the performance requirements specifications in this section of the PWS. The design and operation of the solution is governed by the NGEN Capability Production Document (CPD) and the BTI Statement of Need (SON) and associated Letters of Clarification (LOC). These governing documents include Key Performance Parameters (KPP) which must be maintained throughout the modernization of the communication infrastructure to be performed at MCB Quantico, and are the foundation of the systems design characteristics. Those KPPs are identified in Section 8.1.1. Additional system and subsystem specifications are identified sections 8.2 and 8.3. Specifications governing Site Preparation and Network Power are provided in section 8.4.

#### 8.1.1 SYSTEM-WIDE KEY PERFORMANCE PARAMETERS

Performance Objective	Performance Threshold	Method of Surveillance
KPP-1	Components shall be JITC compliant.	Inspection
KPP-2	The system(s) shall have an operational availability of 99.999%.	Analysis
KPP-3	The system shall have a growth capacity of 25% to support the increase in users without an equipment replacement.	Analysis
KPP-4	Installations with geographically separate Points of Presence (PoP) shall have redundant UC and BAN equipment and services at each CN connected in a split core configuration mirroring the transport boundary.	Analysis

### 8.2 UNIFIED COMMUNICATIONS SYSTEM

The Regional UC solution shall provide business voice capability to those locations where the solution will be deployed. MCB Quantico shall include all NIPRNet users on MCB Quantico The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911) services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

### 8.2.1 VOICE EQUIPMENT INSTALLATION AND CONFIGURATION

Delivery of voice and data services to the end-user shall be provided over a single physical infrastructure connection (port) at the end-user workstation. Physical connection of the end-user devices in series via the phone set. Logical connection for voice and data services shall be accomplished via Virtual Local Area Network (VLANs) or Software-Defined Network (SDN) virtual network.

Each new line module and gateway shall be fully wired to the MDF and equipped with all required common control and power cards, and connected to the assigned Local Session Controllers (LSCs). The contractor shall EFIST and make operational any new cards required to support a mixture of

analog. The contractor shall provide one analog gateway per DN and 8,000 knowledge workers and associated hardware. The contractor shall furnish and install equipment blocks, vertical frames, cables, Digital Cross-Connect (DSX) panels, etc., to terminate the equipped and wired capacity onto the horizontal side of the MDF or cross-connect. The contractor shall coordinate placement of equipment blocks with the TSO. The contractor shall test all endpoints after installation is complete.

# 8.2.2 EQUIPPED SUBSCRIBER PORT CAPACITY

The equipped subscriber port capacity shall be fully licensed, assigned, and activated at the time of cutover. Equipped line cards shall be distributed evenly across all media gateway shelves and line modules to prevent an outage of ports of the same type in the same workspace in the event of hardware failure. The contractor shall build temporary subscriber test lines of all equipped types on each line card module or drawer for testing equipment dial tone during System Acceptance Test (SAT).

### 8.2.3 WIRED SUBSCRIBER PORT CAPACITY

The wired subscriber port capacity shall be provided as pre-wired hardware (i.e., shelves, drawers, common control circuit packs, etc.) and have the ability to be activated only through the use of basic switch translations and the installation of subscriber port modules and circuit packs.

### 8.2.4 REPLACEMENT PHONE SETS

The contractor shall provide replacement phone sets at the time of systems cutover. The replacements are provided to support the operations and maintenance of the voice network after Government acceptance. The quantity of replacement phone sets to be delivered shall be 8,000.

# 8.2.5 KEY SYSTEMS ATTRITBUTES

# 8.2.5.1 REGIONAL UC SYSTEM

Performance Objective	Performance	Method of Surveillance
UC-1	The Regional UC system shall provide IP and analog voice services to each end-user on all Installations within the region.	Inspection
UC-2	The Regional UC shall provide the ability to call between regional end-users without using the softswitch backbone.	Analysis
UC-3	Voice services include business voice, voice conferencing, voice mail, and unified messaging.	Inspection
UC-4	The UC system shall have a Telecommunications Management System (TMS) that supports all the Installations within the region.	Inspection
UC-5	Support the Differentiated Service Code Points (DSCP) markings to implement QoS/CoS.	Inspection
UC-6	Provide native audio Mean Opinion Score (MOS) of 3.8, at a minimum, IAW the Telecommunications Industry Association (TIA) Telecommunications – IP Telephony Equipment – Voice Quality Recommendations for IP Telephony (TSB-116-A).	Inspection

# **8.2.6** MAJOR FUNCTIONAL REQUIREMENT

# 8.2.6.1 LOCAL SESSION CONTROLLER

Performance Objective	Performance	Method of Surveillance
LSC-1	A UC system shall consist of LSCs and Media Gateways as required at each B/P/C/S.	Inspection
LSC-2	LSCs installed at each Installation as defined above shall conform to the requirements for Assured Services Core Session Controller as defined in the UCR 2013 w/Change 2.	Inspection
LSC-3	Each LSC shall interface with the other LSCs in its region in a coordinated cluster to provide full failover capability across Installations.	Inspection
LSC-4	Each LSC shall provide local survivability in the event DISN connectivity is lost.	Inspection
LSC-5	Each LSC shall support local session management when in a disconnected state.	Inspection
LSC-6	Each LSC shall support on Base E911/NG911 routing to the PSAP or ERC, via existing Installation infrastructure.	Inspection
LSC-7	The UC systems shall provide both DSN and PSTN Directory Number assignments for each subscriber.	Inspection

Performance Objective	Performance	Method of Surveillance
LSC-8	Automatic Call Distribution (ACD) shall be provided at the region.	Inspection
LSC-9	Supported Users can utilize softphones through secure VPN from any remote location.	Inspection

# 8.2.6.2 SESSION BORDER CONTROLLER

Performance Objective	Performance	Method of Surveillance
SBC-1	SBCs shall be co-located and configured in a redundancy group.	Inspection

# 8.2.6.3 TELECOMMUNICATIONS MANAGEMENT SYSTEM

Performance Objective	Performance	Method of Surveillance
TMS-1	The TMS will be located at MCB Quantico.	Inspection
TMS-2	The TMS shall have a direct interface to Remedy for asset tracking.	Inspection

# 8.2.6.4 CUSTOMER SERVICE SUPPORT APPLICATION

Performance Objective	Performance	Method of Surveillance
CSSA-1	Customer Service Support Application (CSSA) shall be provided at the region.	Inspection
CSSA-2	CSSA shall provide call routing via Interactive Voice Recognitions (IVR) for management, administration features.	Inspection
CSSA-3	CSSA shall support 400 agents.	Inspection
CSSA-4	CSSA shall have a built in "heat map" to allow scheduling during peak usage vice time of day.	Inspection

### 8.3 BASE AREA NETWORK

The BAN at MCB Quantico shall be developed in accordance with the reference architecture shown in Figure 2 and interface with the MCEN Core Switches. The BAN consists of DNs and Edge Access Devices logically connected as depicted in Figure 2. A DWDM system shall be EFIST'd. It shall provide connectivity between the core nodes and the area distribution nodes. Connectivity to the end-user will be accomplished over traditional Ethernet switches and Edge Access Devices located in EUBs. The BAN shall satisfy all the KSA and the Major Functional Requirements identified the following sections.

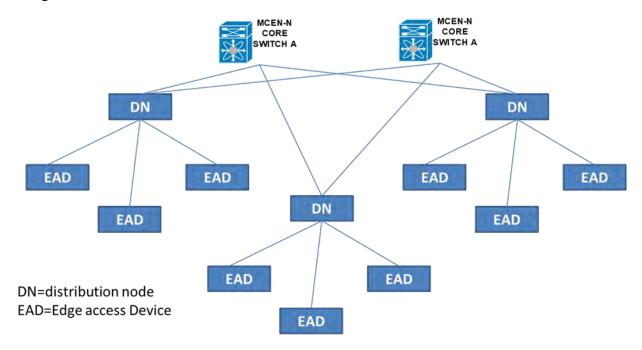


Figure 2 – BAN Reference Architecture

### 8.3.1 KEY SYSTEMS ATTRITBUTES

### 8.3.1.1 Base Area Network

Performance Objective	Performance	Method of Surveillance
BAN-1	Voice, video and data shall be converged on the single installation BAN.	Inspection
BAN-2	The BAN shall support multi-tenancy on the single installation infrastructure.	Inspection
BAN-3	The BAN shall be operated from a single management system executed from a centralized Network Operation Center (NOC) on MCB Quantico.	Inspection
BAN-4	The BAN shall operate within the constraints of the Installation Gateway.	Inspection

# 8.3.2 MAJOR FUNCTIONAL REQUIREMENT

# 8.3.2.1 WAVELENGTH DIVISION MULTIPLEXING

The Optical Transport System (OTS) for the Backbone Transport shall be comprised primarily of DWDM technology to include all equipment and components to make a complete and functional Wave Selectable Switch (WSS) Reconfigurable Optical Add/Drop Multiplexers (ROADMs) nodal network elements. The OTS may include Course Wavelength Division Multiplexing (CWDM) technology in those instances in which a point-to-point connection is required between nodes with limited circuit requirements such as a linear spur to a node in a remote location or Installations that have two CNs, only. The contractor shall leverage existing optical fiber to provide a full or partial mesh topology with no single point of failure.

Performance Objective	Performance	Method of Surveillance
WDM-1	The WDM shall provide sufficient network degrees at each node to support the topology plus one spare degree.	Inspection
WDM-2	The WDM shall provide an integrated wave selectable switch Reconfigurable Optical Add/drop Multiplexer (ROADM) to support all the nodes.	Demonstration
WDM-3	Each degree shall transmit a minimum of 40G wavelengths on the initial configuration.	Test
WDM-4	The WDM network shall be upgradable to 200G and 400G wavelengths without removing the existing hardware suite (circuit card replacement is acceptable) (Objective).	Inspection
WDM-5	Path protection shall be implemented to provide high availability to each node.	Inspection

# **8.3.2.2** CORE AND DISTRIBUTION NODES

Performance Objective	Performance	Method of Surveillance
ADN-1	Node elements shall have a minimum of 10 Gbps uplinks to the MCEN Core Switch.	Inspection
ADN-2	There shall be two BAN core routers located in Bldg. 1999 and Bldg. 24204.	Inspection
ADN-3	The BAN core routers shall be configured in active-active configuration.	Inspection
ADN-4	The BAN core routers shall perform all BAN routing.	Inspection
ADN-5	The BAN core routers shall support MPLS.	Inspection

### 8.3.2.3 EDGE ACCESS DEVICE

Performance Objective	Performance	Method of Surveillance
EAD-1	Edge Access Devices shall have a minimum of 10 Gbps uplink to the DN element.	Inspection
EAD-2	Edge Access Devices shall have uplink diversity and redundancy when allowed by the outside plant.	Inspection
EAD-3	Edge Access Devices shall have a minimum of 10 Mbps end-user interfaces.	Inspection
EAD-4	Edge Access Devices shall have a minimum 10 Gbps interface to the Wireless Access Point (WAP).	Inspection
EAD-5	Edge Access Devices shall support POE+.	Inspection

### 8.4 SITE PREPARATION

Site preparation will be provided on an as needed basis at CNs and DNs nodes only.

### 8.4.1 KEY SYSTEMS ATTRITBUTES

Performance Objective	Performance	Method of Surveillance
SP-1	The Network Power System shall provide sufficient uninterruptable AC and DC power to support all IT systems and components located in the facility.	Analysis
SP-2	The Network Power System shall provide sufficient transitional power in the event of loss of shore/commercial power until emergency backup comes on-line.	Demonstration
SP-3	Auxiliary infrastructure shall be installed IAW with all applicable Unified Facilities Criteria.	Inspection

# 8.4.2 MAJOR FUNCTIONAL REQUIREMENT

#### 8.4.2.1 NETWORK POWER SYSTEM

The contractor shall validate the power requirements at the VSS. If needed, the Government may request that the Contractor provide Network Power Systems at the Core and Distribution Nodes to support all the systems and subsystems delivered as a part of the proposed solution. This Network power systems shall include an AC connection to commercial or shore power, N+1 3-Phase AC UPS, Automatic Transfer Switch (ATS), self-testing network Emergency Power Off (EPO) switch, battery disconnect switch, and any necessary sub-panels, cabinet or rack power supply buss trackway and Power Distribution Units (PDUs).

Network Power Systems modernization (upgrade/replacement) will be provided on an as needed basis at Installations Core and Distribution Nodes only.

# 8.4.2.2 NETWORK PANELBOARDS AND SUBPANELS

Performance Objective	Performance	Method of Surveillance
NPS-1	All Network power panels and subpanels shall be 120/208 VAC, 3-phase, Y-connected, with separate neutral and ground conductors.	Inspection
NPS-2	Bonding of neutral and ground conductors shall be done in accordance with NFPA 70 and the NEC instruction regarding bonding of neutral to ground in a multi-panel system.	Inspection
NPS-3	AC distribution system wiring shall include a separate copper conductor marked as per NFPA 70 and the NEC instruction installed throughout all branch and feeder circuits.	Inspection
NPS-4	All network AC power panels feeding branch circuits shall be sized for not less than 25 percent growth in circuit breaker quantity.	Analysis
NPS-5	Circuit panels and circuit breakers shall not exceed 80% of the nameplate ampacity of the circuit breakers.	Inspection
NPS-6	All circuits for network equipment racks and cabinets shall be dedicated circuits.	Inspection
NPS-7	A self-testing Emergency Power Off switch shall be installed.	Demonstration

# 8.4.2.3 AC NETWORK POWER

Performance Objective	Performance	Method of Surveillance
ACP-1	A N+1, 3-Phase AC UPS shall be sized to meet designed systems power capacity, inclusive of the designed system reserve capacity.	Analysis
ACP-2	A 3-Phase UPS shall provide surge protection in a transformer-less topology and non-degenerative filtering for lighting strikes.	Inspection
ACP-3	A 3-Phase UPS shall provide load fault detection and clearing.	Demonstration
ACP-4	A 3-Phase UPS shall provide a harmonic reduction system to detect when harmonics, power factor or phase unbalance are out of limits and automatically corrects to the user-defined set point.	Demonstration
ACP-5	A 3-Phase UPS shall have the capacity to house the batteries in the same cabinet as the UPS for CNs and DNs to save floor space.	Inspection

Performance Objective	Performance	Method of Surveillance
ACP-6	A 3-Phase UPS shall have a three stage charging process that is capable of extending battery life by 50%.	Test
ACP-7	A 3-Phase UPS shall provide advanced notification prior to battery failure.	Demonstration
ACP-8	A 3-Phase UPS shall have a color touchscreen LCD interface.	Inspection
ACP-9	A 3-Phase UPS shall have internal modularity.	Analysis
ACP-10	A 3-Phase UPS shall have an internal maintenance bypass switch.	Inspection
ACP-11	A 3-Phase UPS shall have a UL 924 certification for emergency lighting.	Inspection
ACP-12	A 3-Phase UPS shall be serviceable thru the front of the cabinet. It shall have the ability to be put against the wall or in a corner.	Inspection
ACP-13	A 3-Phase UPS shall be rated an Energy Star Qualified partner with the U.S. Environmental Protection Agency and the U.S. Department of Energy.	Inspection
AACP-14	A 3-Phase UPS shall provide 99% efficiency across the operating load range.	Test
ACP-15	A 3-Phase UPS shall provide double conversion efficiency at 97% or greater.	Test
ACP-16	A 3-Phase UPS shall be equipped with a quick glance from a distance system status, via green/yellow/red LED light panel.	Inspection
ACP-17	A 3-Phase UPS shall be equipped with power monitoring and reporting software that is compatible with HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU, and BACnet IP protocols.	Inspection
ACP-18	A 3-Phase UPS shall have a safety certification that complies with the UL 1778, UL 924 Emergency Lighting and Power.	Inspection

# 8.4.2.4 DIRECT CURRENT NETWORK POWER

Performance Objective	Performance	Method of Surveillance
DCP-1	In the event a network component chassis requires DC power, a stand-alone N+1 rack mounted rectifier shall be sized and installed in the same rack to provide the required DC power capacity for that singular chassis component.	Inspection

# 8.4.2.5 NETWORK POWER DISTRIBUTION SYSTEM

Performance Objective	Performance	Method of Surveillance
NPD-1	PDUs shall have a 3-phase 120/208 VAC four-pole modular track buss way electrical distribution system above each equipment row fed from a 3-Phase UPS.	Inspection
NPD-2	The PDU track buss way power system shall be rated for 225 amps and 600 volts with each equipment row fed from a separate breaker.	Inspection
NPD-3	Each installed PDU track buss way power system shall have metering capabilities for each phase that includes an automatic cycling display that display Voltage, Current, and Power Usage, at a minimum.	Demonstration
NPD-4	A plug-in unit containing a 3-phase, 30-amp circuit breaker and a receptacle or drop-down cord with receptacle shall be installed above each rack as required to accommodate the equipment rack PDU.	Inspection
NPD-5	Equipment racks and cabinets containing equipment with "A" and "B" AC power supplies shall have two (2) plug-in drops and two (2) PDUs provided.	Inspection
NPD-6	Equipment racks and cabinets containing only passive equipment (i.e., unpowered fiber optic patch panels) do not require power drops or PDUs.	Inspection
NPD-7	Each equipment rack or cabinet shall have a combination 120/208 VAC PDU.	Inspection
NPD-8	Each PDU shall have not less than nine (9) IEC 320 standard C13 receptacles.	Inspection
NPD-9	Each PDU shall have not less than three (3) IEC 320 standard C19 receptacles.	Inspection
NPD-10	Each PDU shall have not less than twelve (12) NEMA 5-20 receptacles.	Inspection
NPD-11	Each phase in the PDU shall have a dedicated breaker.	Inspection
NPD-12	Equipment racks and cabinets containing equipment with "A" and "B" power supplies shall have two PDUs provided.	Inspection

8.4.2.6 NETWORK EMERGENCY BACKUP POWER SYSTEM

Performance Objective	Performance	Method of Surveillance
EBP-1	In the event commercial or shore power is interrupted, the 3-Phase UPS batteries shall be sized to provide uninterruptable, transitional power. A fully functional generator will be provided by the Government (B/P/C/S) as the sole source of emergency backup power.	Inspection / Demonstration
EBP-2	The batteries shall conform to the Unified Facilities Criteria (UFC) 3-520-05 and the UFC 3-520-01.	Inspection
EBP-3	The battery system shall use Valve Regulated Lead Acid (VRLA) batteries unless Lithium Ion batteries are approved by the Government.	Inspection
EBP-4	VRLA batteries shall be equipped with a battery management system to manage the battery rest and charge cycles to extend their life.	Test
EBP-5	VRLA batteries systems shall be monitored for cell failure.	Test
EBP-6	A keyed battery disconnect switch shall be installed at the exterior of the building adjacent to the entrance or in a location prescribed by the AHJ.	Inspection

# 8.4.3 AUXILLARY INFRASTRUCTURE

The contractor shall provide auxiliary infrastructure at the CNs and DNs to support the systems and subsystems delivered as a part of the proposed solution as defined by the Site Specific Requirements. Auxiliary infrastructure consists of the following: equipment racks/cabinets, bracing, seismic bracing, patch panels, ladder rack, wire cable tray, , cabling, cable management system, cable testing, bonding, and grounding.

8.4.3.1 MDF, IDF, AND BACKBOARDS

Performance Objective	Performance	Method of Surveillance
MDF-1	All additional or newly installed MDF, IDF and Backboards shall comply with the Installation Information Infrastructure Architecture (I3A).	Inspection

# 8.4.3.2 CABINETS, RACKS, AND PATCH PANELS

Performance Objective	Performance	Method of Surveillance
CRP-1	Equipment cabinets and rack mounting, dimensions, doors separation or clearances, load rating, cooling fans, spare capacities, horizontal and vertical cable management, strain relief, shall conform to UFC 3-580-1.	Inspection
CRP-2	Equipment cabinets shall have a minimum load rating of 200 pounds.	Inspection / Analysis
CRP-3	Equipment cabinets shall be equipped with a lockable, removable mesh doors.	Inspection
CRP-4	Equipment cabinets shall be equipped with factory knockouts.	Inspection
CRP-5	Equipment cabinets and racks shall have an angle support and a minimum of 46 Rack Units (RUs) and be equipped with an integrated, electrically isolated ground bar.	Inspection
CRP-6	Equipment cabinets and racks shall be black in color unless otherwise specified.	Inspection
CRP-7	Patch panels shall be provided and conform to the UFC 3-580-1.	Inspection
CRP-8	Patch panels shall be installed in, or adjacent to, the equipment racks or cabinets housing BAN equipment.	Inspection
CRP-9	TIA/EIA 568A duplex connectors on 19-inch rack-mounted panels shall be used unless otherwise directed.	Inspection
CRP-10	Fiber Optic Patch Panels (FOPPs) shall not exceed four RUs.	Inspection
CRP-11	All fiber-optic patch panels shall utilize pre-terminated tailed 12-strand closet connector housing cassette with SC duplex (unless specified otherwise) UPC ceramic connectors.	Inspection
CRP-12	Single-mode and multi-mode fiber optic cables shall be terminated on separate fiber optic patch panels.	Inspection
CRP-13	Patch panel labeling shall conform to TIA/EIA 606-A.	Inspection
CRP-14	Patch cables of varying lengths matching the patch panel they are connecting to shall be provided.	Inspection
CRP-15	Provide bend-insensitive, pre-terminated patch cords capable of being locked into place to avoid accidental disruption of services or tampering.	Inspection
CRP-16	CAT 6 copper cables shall terminate on EIA 568A 2-RU CAT 6 Certified Output Protection Protocol (COPP) Patch Panels.	Inspection
CRP-17	Copper Patch Cables: Copper patch cables shall be 4-pair, 24 American Wire Gauge (AWG) stranded UTP cable, rated for CAT6, with 8-pin modular connectors at each end.	Inspection

Performance Objective	Performance	Method of Surveillance
CRP-18	Copper patch panels shall consist of eight-position modular jacks with rear-mounted, type 110 insulation displacement connectors, category-rated for the UTP system being installed and arranged in rows or columns on 19-inch rack-mounted panels. Nineteen-inch wall-mounted panels may be utilized when necessary.	Inspection
CRP-19	Each FOPP and COPP shall have horizontal cable management either built into it or as an independent management system.	Inspection
CRP-20	All ironwork, including frames, cabinets, racks, and cable ladder racks, shall be installed IAW local seismic zone requirements and manufacturers specifications.	Inspection
CRP-21	All ironwork including frames, cabinets, racks, and cable ladder racks shall be isolated from any wall (at the anchor point), floors (at the anchor point), or ceilings with approved isolating materials.	Inspection

# 8.4.3.3 LADDER, WIRE CABLE TRAY, CONDUITS, EMT, PULL, AND SPLICE BOXES

Performance Objective	Performance	Method of Surveillance
LDR-1	A single tier cable ladder or wire tray system shall be provided to support for signal cabling above all equipment, cabinets, racks and the MDF. The signal cabling shall be separated from the power cables by not less than 12 inches. The power cable conduit system shall be located above the signal tier of rack. The cable ladder rack system shall not contact any surface of any equipment cabinets/racks.	Inspection
LDR-2	Ladder, wire cable tray, conduits and EMT, pull and splice boxes dimensions, separation and clearances, fill depth, headroom, fill ratios, bend radius, shall conform to the UFC 3-580-01 and I3A.	Inspection
LDR-3	Pull boxes or splice boxes shall conform to the guidance in I3A 3.6.1.3 and Article 314.28 of the National Electrical Code 2008 (NFPA 70).	Inspection
LDR-4	Twelve-inch wide ladder rack shall be used unless otherwise required.	Inspection
LDR-5	The ladder rack system shall be installed to run the full length of the room and the perimeter of the room. Each perpendicular row shall be arranged over the top of the equipment racks.	Inspection
LDR-6	Plastic or composite wire ways designed for fiber optic cables are permissible.	Inspection

Performance Objective	Performance	Method of Surveillance
LDR-7	Copper cabling shall not be installed in any dedicated fiber optic wire ways.	Inspection

## 8.4.3.4 BONDING AND GROUNDING

Performance Objective	Performance	Method of Surveillance
GND-1	Metal cabinets, racks, raceways, ladders, cable trays, enclosures, frames, fittings, EMT, pull boxes, FOC and Copper cable armor, Outside Plant (OSP) Point Of Entry (POE), Building Entrance Terminals (BETs) and other metal noncurrent carrying parts that are able to serve as grounding conductors, with or without the use of supplementary equipment grounding conductors, shall be effectively bonded where necessary to ensure electrical continuity and the capacity to conduct safely any fault currents likely to be imposed on them.	Inspection
GND-2	All Bonding, Grounding, Testing and Labeling shall conform to the I3A, ANSI/TIA 607-C, IEEE 1100-2005 Emerald Book, MIL-STD-419A and MIL-STD-188 124B. NFPA 70, and ANSI TIA-942, TIA/EIA-569-B, NEC Article 250 and the UFC-3-580-01.	Inspection
GND-3	A 2-hole non-twisting, irreversible, circumferential compression fittings, with a sight inspection hole lug shall be used to connect all bonding conductors to the TMGB, TGB, cabinet, rack and cable ladders.	Inspection

## **8.4.3.5** FIRE STOP

Performance Objective	Performance	Method of Surveillance
FSP-1	Any existing or newly created pathway thru walls, ceiling or floors that are utilized shall conform to the fire stop requirements found within the UFC 3-580-01, NFPA70, NEC, I3A.	Inspection

# 8.4.3.6 ENVIRONMENTAL HAZARDS

Performance Objective	Performance	Method of Surveillance
OSH-1	The contractor shall perform limited asbestos abatement in support of minor-construction work under a non-construction contract IAW with established OSHA standards.	Inspection
OSH-2	The contractor shall be expected to take the appropriate safety precaution IAW with established OSHA standards to continue to perform work in support of minor-construction work under a non-construction contract when lead-based paint is present.	Inspection

## 8.4.3.7 FIBER AND COPPER CABLING

Performance Objective	Performance	Method of Surveillance
FBR-1	All fiber planned for use between the CN and DNs shall be characterized and if less than manufacturer's requirement the Government will be notified.	Inspection
FBR-2	Plenum cables shall be used in all plenum spaces IAW the NFPA 70, or as directed by the AHJ.	Inspection
FBR-3	OSP FOC or Copper cable that extends past the POE by 50 feet, it shall comply with the NFPA 70 Section 800.113.	Inspection
FBR-4	Cables and wiring between subsystems shall be clearly and permanently labeled and conform to the TIA/EIA-606-A.	Inspection

PWS MCB QUANTICO, VIRGINIA

# 8.5 EXISTING NODES AND EQUIPMENT

The existing nodes and network and voice equipment is provided in Table 5 and Table 6. There may be additional equipment found during the verification site survey.

Table 5 – Existing Nodes and Equipment – MCB Quantico

	Existing Nodes and Equipment								
MCB Quantico	Core 0	ADN1	ADN2	ADN3	ADN4	ADN5	ADN6	ADN7	Russel Knox
	DCO	TBS	-	-	MCU	OCS	Upshur	Weapons	-
Building	1999	24204	3255	3300	2076	2189	26100	27282	27130C
Zone #	8	7	4	5	3	2	-	9	1
PBX	Nortel/Avaya SL100/CS2100 CM6	Tellabs Voice Gateway	-	Nortel RCC2	Nortel RCC2	Tellabs T1000	-	Nortel MGk9	-
Voice Firewall	Secure Logix	-	-	-	-	-	-	-	-
Voice Mail	Nortel	-	-	-	-	-	-	-	-
Conference Bridge	Nortel	-	-	-	-	-	-	-	-
SBC									
Gateways	Avaya G450	-	-	Avaya G450	Avaya G450	-	-	Avaya G450	-
MPLS Routers	JB-CE 1	JB-CE 2	-	-	-	-	-	-	-
SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	-	SONET Node	-
DWDM									
Data Distribution Router	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	-	-	-	-
ASLAN Router	Brocade	-	-	-	-	-	-	Brocade	-
GPON OLT	Tellabs 1150	Tellabs 1150	-	-	Tellabs 1150	-	-	Tellabs 1150	-
GPON ONTs - Qty	107	38	-	-	92	-	-	16	-
Data Access Switch - Qty	64	57	35	24	30	22	-	53	2

**Table 6 – Existing Nodes and Equipment – Remote Sites** 

Existing Nodes and Equipment – Remote Sites									
Remote Sites	INHZ	PKWY	SCPA	BAND	BRRK	WNYZ	ANNZ		
Remote Sites	NCR	NCR	NCR	HQMC	HQMC	HQMC	HQMC		
Data Distribution Router	CISCO 3750		CISCO 3750	CISCO 3750	CISCO 3750	CISCO 2811 CISCO 2911 ES2	-		
ASLAN Router	=	=	=	-	-	-	-		
GPON OLT	-	-	-	-	-	-	-		
GPON ONTs - Qty	=	=	=	-	-	=	-		
Data Access Switch - Qty	8	5	1	6	10	5	4		

# APPENDIX A – MCB QUANTICO – SITE SPECIFIC EQUIPMENT

Attachment 1 provides the MCB Quantico existing nodes and equipment per site.

### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

D. SYSTEM/ITEM E. CONTRACT/PR NO. MCB Quantico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE	
MCB Quantico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	
1. DATA ITEM NO. A001  2. TITLE OF DATA ITEM System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  3. SUBTITLE N/A	
A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	ES
a Contractor's Internal Unclassified Information System	ES
	ES
A AUTHORITY (F. C.	ES
4. AUTHORITY (Data Acquisition Document No.)  DI-MGMT-82247  5. CONTRACT REFERENCE  SOW, Section 5.2  6. REQUIRING OFFICE  USMC, MCSC	ES
7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION 14. DISTRIBUTION	ES
XX REQUIRED As Required As Required b. cop	
8 APP CODE 11 AS OF DATE 13. DATE OF SUBSEQUENT 2 ADDRESSES	Final
N/A D $N/A$ Submission $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Reg	1
16. REMARKS COR 0	1 0
Block 5: Contractor shall provide an SSP in accordance with NIST SP 800-171, indicating PCO 0	0 1
whether the Contractor has implemented the security requirements, plans to implement the PEO/PfM ISSM 0	0 1
security requirements, or that the requirement is not applicable. Attached to the SSP shall be APM 0	0 1
a populated POA&M with all outstanding findings discovered during the self-audit	1
describing compliance or non-compliance and plan of action(s) of the total list of security	
controls. This submission shall be upon award, on a quarterly basis or upon request.	
The same and the same and a specific	
Block 7: Inspection/acceptance requirements specified elsewhere in the contract.	
Block 9: DISTRIBUTION STATEMENT D: Distribution authorized to the Department of	
Defense and U.S. DoD contractors only. (Reason: Administrative or Operational Use)	
(Date of Determination: DDMMMYYYY). Other requests for this documentation shall be	
referred to:	
Marine Corps System Command	
Program Office	_
2200 Lester St	
Quantico, VA 22134	
Blocks 10-13: The Contractor shall deliver the initial SSP and POA&M (and appropriate	
extracts thereof) quarterly, or upon Program Management Offices request. The SSP will be	
reviewed for acceptance by the Government Program Management Office (PMO). The	
PMO shall be granted full access to validate the information in the Contractor's submission	
on an ad hoc basis without notice or upon replacement or rotation of the Government PM.	
Block 14: Notification of delivery shall be made to Stephen J. Magee, COR. Any further	
distribution beyond what's listed will be authorized by the Program Management Office	
(PMO). Email addresses for Distribution list POCs:	
COR: Stephen Magee, Stephen.j.magee@usmc.mil, 703-784-4986	
PCO: Brenda Edwards, Brenda.edwards@usmc.mil, 703-784-6541	
APfM Logistics: Darin Simmons, darin.simmons@usmc.mil, 703-432-5171	
PEO/PfM ISSM: Jeffrey Miller, Jeffrey.k.miller@usmc.mil, 703-784-6591	
Note: The Government Procuring Contracting Officer (PCO) does not require the formal	
deliverable, however the Letter of Transmittal should be sent to the PCO to document	
delivery notification and compliance with this CDRL. Deliver all copies via electronic	
media where feasible, otherwise deliver in hard copy.	
15. TOTAL → 0	1 3
G. PREPARED BY H. DATE I. APPROVED BY J. DATE	
Roger Asprer Stephen Magee	1020
ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 Disc. 2020/617 1165237 44000 Disc. 20	.020

	CONTRA	CT DATA REQU (1 Data Item,				
	B. EXHIBIT	C. CATEGORY:	OTHER X			
000X, 000Y, 000Z	A F CONTRACT	T/DD NO				
D. SYSTEM/ITEM  MCB Quantico Modernization	E. CONTRAC n M67854	17PR NO. 1-20-C-XXXX	F. CONTRACTOR	chnology Trends	Group, LLC	
16. REMARKS (Continued)	ı		ı			
DD FORM 1423-1, FEB 2001				Reset	Page of_	Pages

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
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#### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

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17. PRICE GROUP

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16. REMARKS (Continued)					23	17			
DD FORM 1423-1, FEB 2001	l				Reset	Page of	Pages		

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

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Form Approved OMB No. 0704-0188

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16. REMARKS (Continued)									
DD FORM 1423-1, FEB 20	01	<u> </u>		Page	of	Pages			

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

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**DID: DI-MGMT-82247** 

#### **DATA ITEM DESCRIPTION**

Title: Contractor's Systems Security Plan and Associated Plans of Action to Implement NIST SP 800-171 on a Contractor's Internal Unclassified Information System

Number: DI-MGMT-82247 Approval Date: 20181031

AMSC Number: 9992 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: OSD-SO Project Number: MGMT-2018-049

**Applicable Forms: None** 

Use/relationship: This Data Item Description (DID) contains the data content, format, and intended use of the Contractor's system security plan (or extracts thereof), to include any associated plans of action, addressing the Contractor's internal unclassified information system(s). When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information - as defined in DFARS Clause 252.204-7012 - will be processed, stored, or transmitted on an unclassified information system that is owned, or operated by or for, the Contractor, the Contractor shall develop, document, and periodically update a system security plan(s), to include any associated plans of action, for the Contractor's internal unclassified information system in accordance with the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations. Security Requirement 3.12.4 of the NIST SP 800-171 requires that system security plans describe system boundaries, system environments of operation, how security requirements are implemented, and the relationships with or connections to other systems. Security Requirement 3.12.2 of the NIST SP 800-171 requires that plans of action describe how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's unclassified information system. The system security plan (or extracts thereof) and any associated plans of action may be used by the government as input to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). This DID contains the information that shall be conveyed within the system security plan and any associated plans of actions for the Contractor's internal unclassified information system. There is no prescribed format or specified level of detail for how that information is conveyed. There is no requirement for the government to approve the system security plan or any associated plans of action for the Contractor's internal unclassified information system, but the government may request that the Contractor submit the system security plan (or extracts thereof), and any associated plans of action, such that the government may review the Contractor's implementation of security requirements. When requested by the government, the submitted system security plan (or extracts thereof) and any associated plans of action for the Contractor's internal unclassified internal information system may: - Demonstrate to the government the Contractor's implementation or planned implementation of the security requirements for their internal unclassified information system, or

- Be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or

**DID: DI-MGMT-82247** 

operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). Requirements:

- 1. <u>Reference Documents</u>: The applicable issue of the documents cited herein, including development dates and dates of any applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format acceptable.
- 3. <u>Content</u>: The system security plan (or extracts thereof) shall include a description of system boundaries, system environments of operation, how security requirements are implemented or how organizations plan to meet the requirements, and the relationships with or connections to other systems. Any associated plans of action shall include a description how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's information system.
- 3.1. <u>Cover Page</u>: The cover page of the system security plan (or extracts thereof) and any associated plans of action shall identify the following information:
- 3.1.1. Title of the document (i.e., Systems Security Plan and Associated Plans of Action for [Name of Contractor's Internal Unclassified Information System])
  - 3.1.2. Company name
  - 3.1.3. Data Universal Numbering Systems (DUNS) Number
  - 3.1.4. Contract number(s) or other type of agreement
  - 3.1.5. Facility Commercial and Government Entity (CAGE) code(s)
  - 3.1.6. System that this System Security Plan and any associated Plans of Action addresses
  - 3.1.7. Date of latest revision
  - 3.1.8. All appropriate distribution and classification statements/markings
- 3.2. <u>System Identification</u>: The purpose of the system security plan shall be communicated in this section, to include a description of the function/purpose of the Contractor's internal unclassified information system(s)/network(s) that is (are) addressed in the plan.
- 3.3. <u>System Environment</u>: A detailed topology narrative and graphic shall be included that clearly depicts the Contractor's internal unclassified information system boundaries, system interconnections, and key components. This does not require depicting every device, but would include an instance of operating systems in use, virtual and physical servers (e.g., file, print, web, database, application), as well as any networked workstations, firewalls, routers, switches, copiers, printers, lab equipment, etc. If components of other systems that interconnect/interface with this system need to be shown on the diagram, denote the system boundaries by referencing the security plans or names and owners of the other system(s) in the diagram. Include or reference (e.g., to an inventory database or spreadsheet) a

#### **DID: DI-MGMT-82247**

complete hardware and software inventory, including make/model/version and maintenance responsibility.

- 3.4. Security Requirements: Describe how the Contractor addresses/will address security requirements in each of the following NIST SP 800-171 security requirement families (including basic and derived requirements) for protecting covered defense information in the Contractor's systems and organizations:
  - 3.4.1. Access Control (3.1.1 3.1.x)
  - 3.4.2. Awareness and Training (3.2.1 3.2.x)
  - 3.4.3. Audit and Accountability (3.3.1 3.3.x)
  - 3.4.4. Configuration Management (3.4.1 3.4.x)
  - 3.4.5. Identification and Authentication (3.5.1 3.5.x)
  - 3.4.6. Incident Response (3.6.1 3.6.x)
  - 3.4.7. Maintenance (3.7.1 3.7.x)
  - 3.4.8. Media Protection (3.8.1 3.8.x)
  - 3.4.9. Personnel Security (3.9.1 3.9.x)
  - 3.4.10. Physical Protection (3.10.1 3.10.x)
  - 3.4.11. Risk Assessment (3.11.1 3.11.x)
  - 3.4.12. Security Assessment (3.12.1 3.12.x)
  - 3.4.13. System and Communications Protection (3.13.1 3.13.x)
  - 3.4.14. System and Information Integrity (3.14.1 3.14.x)
- 3.5. <u>Plans of Action</u>: In accordance with Security Requirement 3.12.2, provide any plans of action developed to address how and when the Contractor will implement any security requirements not yet implemented, identify known deficiencies and vulnerabilities in the contractor's internal unclassified information system, how and when the Contractor will correct identified deficiencies and reduce or eliminate vulnerabilities in the Contractor's system.

#### DI-MGMT-XXXXX

#### **DATA ITEM DESCRIPTION**

Title: Cyber Incident Reporting for a Contractor's Internal Unclassified Information System(s)

Number: DI-MGMT-XXXXX Approval Date: TBD
AMSC Number: YYYY Limitation: TBD
DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: TBD Project Number: MGMT-XXXX-XXX

**Applicable Forms: None** 

**Use/relationship:** When DFARS Clause 252.204-7012 is included in a contract for which Controlled Unclassified Information (CUI) – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted during the course of executing the terms a Department of Defense (DoD) contract, cyber incidents shall be reported to the Defense Cyber Crime Center (DC3) via the DIBNet portal.

This Data Item Description (DID) contains the information that is required of the Contractor submitting the incident report to DC3.

This information, once reported, will be shared by DC3 as threat information between the DoD and DIB companies. When DC3 receives a DFARS cyber incident report, DC3 will send an unclassified encrypted email containing the submitted incident report to the government Contracting Officer point of contact identified in the submitted report to have the report placed in the contract file to document the action, with a courtesy copy to the following:

- Director, DC3/DCISE
- Director, OSD DAMO
- Director, DIB CS/IA Program Office
- Contract Program Management Office

### **Requirements:**

- 1. Format: Use the format prescribed through the DIBNet Portal at <a href="http://dibnet.dod.mil">http://dibnet.dod.mil</a>.
  - Under "DoD's DIB Cybersecurity (CS) Program" on the right side of the page, select "Voluntary Report".
  - Since this is reporting is to satisfy a contractual requirement, select "Mandatory Incident Report".
  - Follow the "Mandatory Incident Report" wizard for the following:
    - o General Information
    - I. Company Identification
    - II. Company POC Information
    - III. Contract or other Agreement
    - IV. Incident Information
    - V. Ancillary Information

End of DI-MGMT-XXXX

DID: DI-SCRE-82258

#### **DATA ITEM DESCRIPTION**

Title: CONTRACTOR'S RECORD OF TIER 1 LEVEL SUPPLIERS RECEIVING/ DEVELOPING COVERED

**DEFENSE INFORMATION** 

Number: DI-SCRE-82258 Approval Date: 20190313

AMSC Number: 10008 Limitation: DTIC
DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: RS Project Number: MGMT-2019-010

**Applicable Forms: None** 

**Use/relationship:** When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted on a tier 1 level supplier's internal unclassified information system. (DFARS Clause 252.204-7012 can be found at https://www.acq.osd.mil/dpap/dars/dfars/html/current/252204.htm)

- a. This Data Item Description (DID) contains the information that is required of the Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information. This information will be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned or operated by, or for, the contractor (i.e. contractor's internal unclassified information system). This information will:
- (1) Demonstrate to the government the Contractor's ability to restrict the dissemination of covered defense information specified in, or developed under, the contract to subcontractors that execute requirements that involve the covered defense information.
- (2) Demonstrate to the government the Contractor's ability to ensure that their tier 1 level suppliers safeguard covered defense information in accordance with DFARS Clause 252.204-7012.
- b. This DID contains the format, content, and intended use information for the data deliverable resulting from the work task described in the contract.

#### Requirements:

- 1. Reference Documents: The applicable issue of the documents cited herein, including approval dates and dates of applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format is acceptable.
- 3. Content: The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information must include a description of how the Contractor will identify and restrict the dissemination of covered defense information to subcontractors who require the covered defense information to execute the requirements in their contract and how the Contractor will ensure that their tier 1 level suppliers safeguard covered defense information with the requirements of DFARS Clause 252.204-7012. The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information shall include the following:

3.1.	Cover Page: The cover page of the Contractor's Record of Tier 1 Level Suppliers
Receivir	ng/Developing Covered Defense Information shall include:

**DI-SCRE-82258** 

- a. Title of the document (i.e., [Name of Contractor] Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information
- b. Contractor's Data Universal Numbering Systems (DUNS) and Commercial and Government Entity (CAGE) code numbers
- c. Contract number(s) or other type of agreement (if available)
- 3.2. Tier 1 Level Supplier Information (for each Tier 1 Level Supplier receiving/developing covered defense information associated with this contract)
- a. Supplier Name
- b. Supplier contract and/or agreement number (if available)
- c. Supplier Point of Contact: name, email, and phone number
- d. Date the Tier 1 Level Supplier sub contract was put in place
- e. Number of sub contracts with Tier 1 Level Supplier
- f. Supplier contract and/or agreement contains or will contain substance of DFARS Clause 252.204-7012 Y/N
- g. Supplier contract and/or agreement contains or will contain cyber security measures and/or requirements other than those identified in DFARS Clause 252.204-7012 and National Institute of Standards and Technology (NIST) Special Publication (SP) 800- 171 Rev 1: Y/N (NIST SP 800-171 can be found at https://csrc.nist.gov/publications/detail/sp/800-171/rev-1/final
- h. Contractor's DUNS and CAGE numbers:

#### DID: DI-SCRE-82258

- i. Supplier has conducted or will conduct a self-assessment in accordance with NIST SP 800-171A:Y/N (NIST SP 800-171A can be found at https://csrc.nist.gov/publications/detail/sp/800-171a/final)
- j. Supplier System Security Plan and Associated Plans of Action in accordance with NIST SP 800-171 Rev 1 Security Requirement 3.12.4 and 3.12.2
- k. List of Supplier's Tier 1 Level Suppliers receiving and/or developing covered defense information

END OF DI-SCRE-82258

SOLICITATION/CONTRAC				1. REQUISIT		BER			PAGE	1 OF 22
2 CONTRACT NO. M6785420C4919		FECTIVE DATE	4. ORDER NUMBER		5. SOLICITATION NUMBER M6785420R4917				6. SOLICITA 23-Jun-2	ATION ISSUE DATE 2020
7. FOR SOLICITATION INFORMATION CALL:	a NAME ANTHON	Y GENAO			0.300	b. TELEPHONE NUMBER (No Collect Cells) 8, OFFER DUE DATE/LOC/ 703 784-6575 12:00 PM 23 Jul 202				
9. ISSUED BY	CODE	M67854	10. THIS AC	QUISITION IS		-	RICTED OR )	7	ACTION AND	0 % FOR:
COMMANDER MARCORSYSCOM ATTN: ANTHONY GENAO 2200 LESTER STREET QUANTICO VA 22134	NTHONY GENAO STER STREET		Пнивтом	SMALL BUSINESS ELIGIBLE L SMALL BU		WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOMEN-OWNED SMALL BUSINESS PROGRAM  NAICS: EDWOSB  541512				
TEL: 703-784-6575 FAX:			VETERA	SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS  SIZE STANDARD: \$30,000,000						
11. DELIVERY FOR FOB DESTINA-	12. DISCO	JNT TERMS				13b. R	ATING			
TION UNLESS BLOCK IS MARKED  X SEE SCHEDULE			L RA	13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		DER 14. METHOD OF SOLICITATION				RFP
15. DELIVER TO	CODE	M67854	16. ADMINIS	TERED BY			111 4	CO		is t
MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134	0002 (				ITEN	<b>1</b> 9				
17a.CONTRACTOR/ CODE 481E1 FACILITY CODE			18a. PAYME	18a. PAYMENT WILL BE MADE BY CODE M67443						
TECHNOLOGY TRENDS GROUP, LI ANN SPEYER 2121 N 15TH ST STE 300 ARLINGTON VA 22201-2686 TELEPHONE NO. (571) 388-5674		T AND PUT	DFAS-JDC PO BOX 18 COLUMBU 18b. SUBN	BB/CO 32317 S OH 43218 IT INVOICES	-2317 -TO ADI	DRESS S	SHOWN IN BI		UNLESS	BLOCK
SUCH ADDRESS IN OFFER		20.	BELOWIS	CHECKED	X SI	E ADD	ENDUM 22.	23.	-	24.
19. ПЕМ NO.	SCHEDULE	OF SUPPLIES/	SERVICES		QUAN		UNIT	UNIT P		AMOUNT
		SEE SCHEI	DULE							
25. ACCOUNTING AND APPROPR See Schedule	ATION DATA						26. TOTAL /	AWARD AMO		r Govt. Use Only)
27a. SOLICITATION INCORPOR								DDENDA X		ARE NOT ATTACHE
28. CONTRACTOR IS REQUIR COPIES TO ISSUING OFFICE. DELIVER ALL ITEMS SET FOR: ADDITIONAL SHEETS SUBJECT	CONTRACTOR TH OR OTHER! T TO THE TER	AGREES TO FU	RNISH AND ABOVE AND ON A IONS SPECIFIED.	L	OFFER (BLOCI	DATED K 5), INC		. YOUR O	OR CHA	N SOLICITATION INGES WHICH ARE : SEE SCHEDULE
30a, SIGNATURE OF OFFERORY				TED STATES C	OF AMERI	CA (SIG	SNATURE OF CO	INTRACTING (	OFFICER)	
30b. NAME AND TITLE OF SIGNE	×	30c. DATE:	3	ME OF CONTR			(TYPE (	OR PRINT)		31c. DATE SIGNED
Sara Uzel TTG LLC Manager	9/29/2020 TEL: 703-				4-6541		smc.mil			30 Sep 2020

SOLICITA	SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS (CONTINUED)											PAGE 2 OF 22	
19. ITEM NO.		SC	20. CHEDULE OF SUPP	LIES/ SERVICE	·s	•	21. QUANTIT	Υ	22. UNIT	23 UNIT P		24. AMOUNT	
TIEWINO.		Sc	SEE SCH				QUANTIT	Y	UNIT	UNITP	MICE	AMOUNT	
32a. QUANTITY IN	-	_	N				•					•	
RECEIVED	INSPECTE	LACC	EPTED, AND CONF		ONTRAC								
32b. SIGNATURE C REPRESENTA		IZED GOVI	EKNMENT	32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVI REPRESENTATIVE				=KNMEN	I			
32e. MAILING ADD	RESS OF A	UTHORIZE	D GOVERNMENT RE	EPRESENTATIVE	<b>E</b>	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE							
						32g. E-MA	IL OF AUTHORI	ZED GC	)VERNMEN	T REPRESE	NTATIVE		
33. SHIP NUMBER	34.	VOUCHER	NUMBER	35. AMOUNT VE CORRECT		36.	PAYMENT COMPLET	PAYMENT 37. CHECK NUMBER  COMPLETE PARTIAL FINAL			CK NUMBER		
38. S/R ACCOUNT	NUMBER	39. S/R VC	DUCHER NUMBER	40. PAID BY									
41a. I CERTIFY THI 41b. SIGNATURE A			ECT AND PROPER ING OFFICER	FOR PAYMENT 41c. DATE	42a. RE	CEIVED BY	(Print)						
				42b. RECEIVED AT (Location)									
					42c. DA	TE REC'D (	YY/MM/DD)	42d. TO	OTAL CONT	AINERS			

### Section SF 1449 - CONTINUATION SHEET

ITEM NO 0001	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT \$0.00
	Enterprise Unified Capabil FFP	lities			
				NET AMT	\$0.00

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0001AA 1 Each \$4,612,308.95 \$4,612,308.95

BTI Funding

FFP

Enterprise Unified Capabilities shall be performed in accordance with section 5.1.1 of the PWS.

NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination

MILSTRIP: M9545020SU94611

PURCHASE REQUEST NUMBER: M9545020SU94611

PSC CD: 7010

NET AMT \$4,612,308.95

ACRN AA \$4,612,308.95

CIN: M9545020SU946110001AA

Page 4 of 22

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0001AB 1 Each \$205,717.67 \$205,717.67

NGEN Funding

**FFP** 

Enterprise Unified Capabilities shall be performed in accordance with section 5.1.1 of the PWS.

FOB: Destination

MILSTRIP: M9545020SU04976

PURCHASE REQUEST NUMBER: M9545020SU04976

PSC CD: 7010

NET AMT \$205,717.67

ACRN AB \$205,717.67

CIN: M9545020SU049760001AB

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0002 1 Each \$2,001,640.68 \$2,001,640.68

Supporting Infrastructure & Power System

**FFP** 

Supporting Infrastructure & Power Systems shall be performed in accordance with section 5.1.3 of the PWS.

NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination

MILSTRIP: M9545020SU94611

PURCHASE REQUEST NUMBER: M9545020SU94611

PSC CD: 7010

NET AMT \$2,001,640.68

ACRN AA \$2,001,640.68

CIN: M9545020SU946110002

Page 5 of 22

\$0.00

ITEM NO SUPPLIES/SERVICES QUANTITY **UNIT UNIT PRICE AMOUNT** 0003 \$7,516,787.37 1 Each \$7,516,787.37 Base Area Network (BAN) BAN shall be performed in accordance with section 5.1.2 of the PWS. NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent. FOB: Destination MILSTRIP: M9545020SU04976 PURCHASE REQUEST NUMBER: M9545020SU04976 PSC CD: 7010 **NET AMT** \$7,516,787.37 ACRN AB \$7,516,787.37 CIN: M9545020SU049760002 ITEM NO SUPPLIES/SERVICES QUANTITY **UNIT UNIT PRICE AMOUNT** 0004 \$0.00 Unification/Convergence **FFP** 

**NET AMT** 

Page 6 of 22

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0004AA 1 Each \$2,768,794.33 \$2,768,794.33

BTI Funding

**FFP** 

Unification/Convergence shall be performed in accordance with section 5.1.2 of the PWS.

NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination

MILSTRIP: M9545020SU94611

PURCHASE REQUEST NUMBER: M9545020SU94611

PSC CD: 7010

NET AMT \$2,768,794.33

ACRN AA \$2,768,794.33

CIN: M9545020SU946110004AA

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0004AB 1 Each \$6,923,946.24 \$6,923,946.24

NGEN Funding

FFP

Unification/Convergence shall be performed in accordance with section 5.1.2 of the PWS.

NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination

MILSTRIP: M9545020SU04976

PURCHASE REQUEST NUMBER: M9545020SU04976

PSC CD: 7010

NET AMT \$6,923,946.24

ACRN AB \$6,923,946.24

CIN: M9545020SU049760004AB

# INSPECTION AND ACCEPTANCE TERMS

# Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	N/A	N/A	N/A	N/A
0001AA	Destination	Government	Destination	Government
0001AB	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
0004	N/A	N/A	N/A	N/A
0004AA	Destination	Government	Destination	Government
0004AB	Destination	Government	Destination	Government

# DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	N/A	N/A	N/A	N/A
0001AA	. 28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854
0001AB	28-FEB-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0002	28-FEB-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0003	28-FEB-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0004	N/A	N/A	N/A	N/A
0004AA	. 28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

M67854

FOB: Destination

# ACCOUNTING AND APPROPRIATION DATA

AA: 17911094635 310 67854 067443 2D 463500

COST CODE: 0SU94611101S AMOUNT: \$9,382,743.96

AB: 17011094625 310 67854 067443 2D 462500

COST CODE: 0SU04976106G AMOUNT: \$14,646,451.28

ACRN	CLIN/SLIN	CIN	AMOUNT
AA	0001AA	M9545020SU946110001AA	\$4,612,308.95
	0002	M9545020SU946110002	\$2,001,640.68
	0004AA	M9545020SU946110004AA	\$2,768,794.33
AB	0001AB	M9545020SU049760001AB	\$205,717.67
	0003	M9545020SU049760002	\$7,516,787.37
	0004AB	M9545020SU049760004AB	\$6,923,946.24

### CLAUSES INCORPORATED BY REFERENCE

Definitions	NOV 2013
Gratuities	APR 1984
Restrictions On Subcontractor Sales To The Government (Sep 2006) Alternate I	OCT 1995
Limitation On Payments To Influence Certain Federal Transactions	OCT 2010
Contractor Employee Whistleblower Rights and Requirement To Inform Employees of Whistleblower Rights	APR 2014
Personal Identity Verification of Contractor Personnel	JAN 2011
Reporting Executive Compensation and First-Tier Subcontract Awards	OCT 2018
System for Award Management Maintenance	OCT 2018
	JUL 2016
Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	OCT 2015
Updates of Publicly Available Information Regarding Responsibility Matters	OCT 2018
Prohibition on Contracting With Inverted Domestic Corporations	NOV 2015
Offeror Representations and CertificationsCommercial Items	AUG 2020
Contract Terms and ConditionsCommercial Items	OCT 2018
Notice To The Government Of Labor Disputes	FEB 1997
Convict Labor	JUN 2003
Child Labor Cooperation with Authorities and Remedies	JAN 2020
Combating Trafficking in Persons	JAN 2019
	Gratuities Restrictions On Subcontractor Sales To The Government (Sep 2006) Alternate I Limitation On Payments To Influence Certain Federal Transactions Contractor Employee Whistleblower Rights and Requirement To Inform Employees of Whistleblower Rights Personal Identity Verification of Contractor Personnel Reporting Executive Compensation and First-Tier Subcontract Awards System for Award Management Maintenance Commercial and Government Entity Code Maintenance Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment Updates of Publicly Available Information Regarding Responsibility Matters Prohibition on Contracting With Inverted Domestic Corporations Offeror Representations and CertificationsCommercial Items Contract Terms and ConditionsCommercial Items Notice To The Government Of Labor Disputes Convict Labor Child Labor Cooperation with Authorities and Remedies

52.223-18	Encouraging Contractor Policies To Ban Text Messaging While Driving	AUG 2011
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.232-1	Payments	APR 1984
52.232-40	Providing Accelerated Payments to Small Business	DEC 2013
	Subcontractors	
52.233-3	Protest After Award	AUG 1996
52.242-13	Bankruptcy	JUL 1995
52.243-1	ChangesFixed Price	AUG 1987
52.243-6	Change Order Accounting	APR 1984
52.246-2	Inspection Of SuppliesFixed Price	AUG 1996
52.246-16	Responsibility For Supplies	APR 1984
52.246-23	Limitation Of Liability	FEB 1997
52.246-24	Limitation Of LiabilityHigh-Value Items	FEB 1997
52.247-34	F.O.B. Destination	NOV 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD	SEP 2011
	Officials	
252.203-7003	Agency Office of the Inspector General	AUG 2019
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Antiterrorism Awareness Training for Contractors.	FEB 2019
252.204-7009	Limitations on the Use or Disclosure of Third-Party	OCT 2016
	Contractor Reported Cyber Incident Information	
252.204-7012	Safeguarding Covered Defense Information and Cyber	DEC 2019
	Incident Reporting	
252.204-7014	Limitations on the Use or Disclosure of Information by	MAY 2016
	Litigation Support Contractors	
252.204-7015	Notice of Authorized Disclosure of Information for Litigation Support	n MAY 2016
252.204-7018	Prohibition on the Acquisition of Covered Defense	DEC 2019
	Telecommunications Equipment or Services	
252.205-7000	Provision Of Information To Cooperative Agreement Holder	s DEC 1991
252.211-7008	Use of Government-Assigned Serial Numbers	SEP 2010
252.225-7001	Buy American And Balance Of Payments Program Basic	DEC 2017
252.225-7012	Preference For Certain Domestic Commodities	DEC 2017
252.226-7001	Utilization of Indian Organizations and Indian-Owned	APR 2019
	Economic Enterprises, and Native Hawaiian Small Business Concerns	
252.227-7015	Technical DataCommercial Items	FEB 2014
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 2016
252.232-7003	Electronic Submission of Payment Requests and Receiving	DEC 2018
, , _ ,	Reports	<b>-</b>
252.232-7010	Levies on Contract Payments	DEC 2006
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	DEC 2012
252.244-7000	Subcontracts for Commercial Items	JUN 2013
2=== 1 1 7 0 0 0		<b>-</b>

## CLAUSES INCORPORATED BY FULL TEXT

52.204-25 PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2020)

(a) Definitions. As used in this clause--

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means--

- (1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
- (2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);
- (3) Telecommunications or video surveillance services provided by such entities or using such equipment; or
- (4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means--

- (1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;
- (2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled--
- (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or
- (ii) For reasons relating to regional stability or surreptitious listening;
- (3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);
- (4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);
- (5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or
- (6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

#### (b) Prohibition.

- (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.
- (2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.
- (c) Exceptions. This clause does not prohibit contractors from providing--
- (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.
- (d) Reporting requirement.
- (1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <a href="https://dibnet.dod.mil">https://dibnet.dod.mil</a>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <a href="https://dibnet.dod.mil">https://dibnet.dod.mil</a>.
- (2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause:

- (i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
- (ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: Any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.
- (e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

# 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS—COMMERCIAL ITEMS (DEVIATION 2018-00021) (AUG 2020)

- (a) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (a) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records—Negotiation.
- (1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.
- (2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.
- (3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.
- (b)(1) Notwithstanding the requirements of any other clauses of this contract, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (b) (1) in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—
- (i) 52.203-13, Contractor Code of Business Ethics and Conduct (OCT 2015) (41 U.S.C. 3509).
- (ii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

- (iii) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (Jul 2018) (Section 1634 of Pub. L. 115-91).
- (iv) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (AUG 2020) (Section 889(a)(1)(A) of Pub. L. 115-232).
- (v) 52.219-8, Utilization of Small Business Concerns (OCT 2018) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$700,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (vi) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- (vii) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).
- (viii) 52.222-35, Equal Opportunity for Veterans (OCT 2015) (38 U.S.C. 4212).
- (ix) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C. 793).
- (x) 52.222-37, Employment Reports on Veterans (FEB 2016) (38 U.S.C. 4212).
- (xi) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496). Flow down required in accordance with paragraph (f) of FAR clause 52.222-40.
- (xii) 52.222-41, Service Contract Labor Standards (AUG 2018) (41 U.S.C. chapter 67).
- (xiii)(A) 52.222-50, Combating Trafficking in Persons (Mar 2015) (22 U.S.C. chapter 78 and E.O. 13627).
- (B) Alternate I (Mar 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xiv) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment-Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xv) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services-Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xvi) 52.222-54, Employment Eligibility Verification (OCT 2015) (E.O. 12989).
- (xvii) 52.222-55, Minimum Wages Under Executive Order 13658 (DEC 2015).
- (xviii) 52.222-62 Paid Sick Leave Under Executive Order 13706 (JAN 2017) (E.O. 13706).
- (xix)(A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a).
- (B) Alternate I (JAN 2017) of 52.224-3.
- (xx) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xxi) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations (MAY 2014) (42 U.S.C. 1792). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.

(xxii) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx. 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor MAY include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

### 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

https://acquisition.gov/browse/index/far

(End of clause)

#### 252.211-7003 ITEM UNIQUE IDENTIFICATION AND VALUATION (MAR 2016)

(a) Definitions. As used in this clause-

Automatic identification device means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

Concatenated unique item identifier means--

- (1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or
- (2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data Matrix means a two-dimensional matrix symbology, which is made up of square or, in some cases, round modules arranged within a perimeter finder pattern and uses the Error Checking and Correction 200 (ECC200) specification found within International Standards Organization (ISO)/International Electrotechnical Commission (IEC) 16022.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at http://www.acq.osd.mil/dpap/pdi/uid/iuid equivalents.html.

DoD item unique identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Government's unit acquisition cost means--

- (1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;
- (2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery; and
- (3) For items produced under a time-and-materials contract, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery.

Issuing agency means an organization responsible for assigning a globally unique identifier to an enterprise, as indicated in the Register of Issuing Agency Codes for ISO/IEC 15459, located at <a href="http://www.aimglobal.org/?Reg">http://www.aimglobal.org/?Reg</a> Authority 15459.

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Type designation means a combination of letters and numerals assigned by the Government to a major end item, assembly or subassembly, as appropriate, to provide a convenient means of differentiating between items having the same basic name and to indicate modifications and changes thereto.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at http://www.acq.osd.mil/dpap/pdi/uid/uii types.html.

- (b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.
- (c) Unique item identifier. (1) The Contractor shall provide a unique item identifier for the following:

(i) Delivered items for which titems:	he Government's unit acquisi	tion cost is \$5,000 or more, except for the following line
Contract line, subline, or exhib		
line item No.	Item description	
	HEDULE	· -
(ii) Items for which the Govern the following table:	nment's unit acquisition cost	is less than \$5,000 that are identified in the Schedule or
Contract line, subline, or exhib	bit	•
line item No.	Item description	
N/A		· -

(If items are identified in the Schedule, insert `See Schedule" in this table.)

- (iii) Subassemblies, components, and parts embedded within delivered items, items with warranty requirements, DoD serially managed reparables and DoD serially managed nonreparables as specified in Attachment Number ----.
- (iv) Any item of special tooling or special test equipment as defined in FAR 2.101 that have been designated for preservation and storage for a Major Defense Acquisition Program as specified in Attachment Number ----.
- (v) Any item not included in paragraphs (c)(1)(i), (ii), (iii), or
- (iv) of this clause for which the contractor creates and marks a unique item identifier for traceability.

- (2) The unique item identifier assignment and its component data element combination shall not be duplicated on any other item marked or registered in the DoD Item Unique Identification Registry by the contractor.
- (3) The unique item identifier component data elements shall be marked on an item using two dimensional data matrix symbology that complies with ISO/IEC International Standard 16022, Information technology--International symbology specification--Data matrix; ECC200 data matrix specification.
- (4) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that-
- (i) The data elements (except issuing agency code) of the unique item identifier are encoded within the data matrix symbol that is marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:
- (A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.
- (B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.
- (C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and
- (ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology-Transfer Syntax for High Capacity Automatic Data Capture Media.
- (5) Unique item identifier.
- (i) The Contractor shall--
- (A) Determine whether to--
- (1) Serialize within the enterprise identifier;
- (2) Serialize within the part, lot, or batch number; or
- (3) Use a DoD recognized unique identification equivalent (e.g. Vehicle Identification Number); and
- (B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique

identification equivalent; and for serialization within the part, lot, or batch number only: Original part, lot, or batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in MIL-STD-130, Identification Marking of U.S. Military Property, latest version;

- (C) Label shipments, storage containers and packages that contain uniquely identified items in accordance with the requirements of MIL-STD-129, Military Marking for Shipment and Storage, latest version; and
- (D) Verify that the marks on items and labels on shipments, storage containers, and packages are machine readable and conform to the applicable standards. The contractor shall use an automatic identification technology device for this verification that has been programmed to the requirements of Appendix A, MIL-STD-130, latest version.

- (ii) The issuing agency code--
- (A) Shall not be placed on the item; and
- (B) Shall be derived from the data qualifier for the enterprise identifier.
- (d) For each item that requires item unique identification under paragraph (c)(1)(i), (ii), or (iv) of this clause or when item unique identification is provided under paragraph (c)(1)(v), in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, as part of the Material Inspection and Receiving Report, the following information:
- (1) Unique item identifier.
- (2) Unique item identifier type.
- (3) Issuing agency code (if concatenated unique item identifier is used).
- (4) Enterprise identifier (if concatenated unique item identifier is used).
- (5) Original part number (if there is serialization within the original part number).
- (6) Lot or batch number (if there is serialization within the lot or batch number).
- (7) Current part number (optional and only if not the same as the original part number).
- (8) Current part number effective date (optional and only if current part number is used).
- (9) Serial number (if concatenated unique item identifier is used).
- (10) Government's unit acquisition cost.
- (11) Unit of measure.
- (12) Type designation of the item as specified in the contract schedule, if any.
- (13) Whether the item is an item of Special Tooling or Special Test Equipment.
- (14) Whether the item is covered by a warranty.
- (e) For embedded subassemblies, components, and parts that require DoD unique item identification under paragraph (c)(1)(iii) of this clause, the Contractor shall report as part of, or associated with, the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:
- (1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.
- (2) Unique item identifier of the embedded subassembly, component, or part.
- (3) Unique item identifier type.\*\*
- (4) Issuing agency code (if concatenated unique item identifier is used).\*\*
- (5) Enterprise identifier (if concatenated unique item identifier is used).\*\*
- (6) Original part number (if there is serialization within the original part number).\*\*

- (7) Lot or batch number (if there is serialization within the lot or batch number).\*\*
- (8) Current part number (optional and only if not the same as the original part number).\*\*
- (9) Current part number effective date (optional and only if current part number is used).\*\*
- (10) Serial number (if concatenated unique item identifier is used).\*\*
- (11) Description.
- \*\* Once per item.
- (f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause as follows:
- (1) End items shall be reported using the receiving report capability in Wide Area WorkFlow (WAWF) in accordance with the clause at 252.232-7003. If WAWF is not required by this contract, and the contractor is not using WAWF, follow the procedures at <a href="http://dodprocurementtoolbox.com/site/uidregistry/">http://dodprocurementtoolbox.com/site/uidregistry/</a>.
- (2) Embedded items shall be reported by one of the following methods--
- (i) Use of the embedded items capability in WAWF;
- (ii) Direct data submission to the IUID Registry following the procedures and formats at <a href="http://dodprocurementtoolbox.com/site/uidregistry/">http://dodprocurementtoolbox.com/site/uidregistry/</a>; or
- (iii) Via WAWF as a deliverable attachment for exhibit line item number (fill in) ----, Unique Item Identifier Report for Embedded Items, Contract Data Requirements List, DD Form 1423.
- (g) Subcontracts. If the Contractor acquires by subcontract any items for which item unique identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s), including subcontracts for commercial items.

(End of clause)

### 252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (DEC 2018)

- (a) Definitions. As used in this clause—
- "Department of Defense Activity Address Code (DoDAAC)" is a six position code that uniquely identifies a unit, activity, or organization.
- "Document type" means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).
- "Local processing office (LPO)" is the office responsible for payment certification when payment certification is done external to the entitlement system.
- "Payment request" and "receiving report" are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

- (b) Electronic invoicing. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation Supplement (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.
- (c) WAWF access. To access WAWF, the Contractor shall—
- (1) Have a designated electronic business point of contact in the System for Award Management at <a href="https://www.sam.gov">https://www.sam.gov</a>; and
- (2) Be registered to use WAWF at <a href="https://wawf.eb.mil/">https://wawf.eb.mil/</a> following the step-by-step procedures for self-registration available at this web site.
- (d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <a href="https://wawf.eb.mil/">https://wawf.eb.mil/</a>.
- (e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.
- (f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:
- (1) Document type. The Contractor shall submit payment requests using the following document type(s): **COMBO**
- (i) For cost-type line items, including labor-hour or time-and-materials, submit a cost voucher.
- (ii) For fixed price line items—
- (A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.
- (B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.
- (iii) For customary progress payments based on costs incurred, submit a progress payment request.
- (iv) For performance based payments, submit a performance based payment request.
- (v) For commercial item financing, submit a commercial item financing request.
- (2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

[Note: The Contractor may use a WAWF "combo" document type to create some combinations of invoice and receiving report in one step.]

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	M67443
Issue By DoDAAC	M67854
Admin DoDAAC**	M67854
Inspect By DoDAAC	M67854
Ship To Code	
Ship From Code	
Mark For Code	
Service Approver (DoDAAC)	M67854 PM10
Service Acceptor (DoDAAC)	M67854 PM10
Accept at Other DoDAAC	
LPO DoDAAC	
DCAA Auditor DoDAAC	
Other DoDAAC(s)	

- (4) Payment request. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.
- (5) Receiving report. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.
- (g) WAWF point of contact.
- (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

## theresa.walters@usmc.mil

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

## Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	Nodes and Equipment pe	er 36	31-AUG-2020
	Site		
Attachment 2	Performance	80	28-SEP-2020
	Specification		
Attachment 3	CDRL A001	3	18-JUN-2020

Attachment 4	CDRL A002	3	18-JUN-2020
Attachment 5	CDRL A003	3	18-JUN-2020
Attachment 6	DID for CDRL A001	3	
Attachment 7	DID for CDRL A002	1	
Attachment 8	DID for CDRL A003	3	

## PAYMENT SCHEDULE

PAYMENT SCHEDULE – MCB QUANTICO (CLINs 0001 - 0004)				
MILESTONE	PERCENT	AMOUNT		
Completion of Government Preliminary (65%) Engineering Design Review	25.00%	\$6,007,298.81		
Completion of Government Final (95%) Engineering Design Review	35.00%	\$8,410,218.33		
Completion of Power Systems Acceptance Testing and QC Inspection	10.00%	\$2,402,919.52		
Completion of Telecommunications Systems Acceptance Testing	15.00%	\$3,604,379.29		
Final Government Acceptance/Project Close-out	15.00%	\$3,604,379.29		
TOTAL		\$24,029.195.24		

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30a. SIGNATURE OF OFFER	ROR/CONTRACTOR		E	DWARE	OS.BI	RENE	DA. Digita	NTRACTING OFFICE Ally signed by ARDS.BRENDA.E 2020.09.30 06:3	0.1102192857
30b. (b)(6)		30c. DATE SIG 9/29/2020	BR	E OF CONTRA ENDA D. : 703-784	EDWA 1-6541	RDS		R PRINT)	30 Sep 2020

SOLICITA	SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS (CONTINUED)					EMS					F	PAGE 2 OF 22
19.			20. SCHEDULE OF SUPP		s	•	21. OLIANTIT	γ T	22. UNIT	23 UNIT F		24. AMOUNT
ITEM NO.			SCHEDULE OF SUPP		S		QUANTIT	Y	UNIT	UNITE	RICE	AMOUNT
32a. QUANTITY IN	INSPE	_	S BEEN ACCEPTED, AND CONF	ORMS TO THE C	ONTRAC	T, EXCEPT	AS NOTED:					
				32c. DATE		32d. PRIN	TED NAME AND RESENTATIVE	TITLE (	OF AUTHOR	rized gov	ERNMEI	NT
32e. MAILING ADD	RESS O	F AUTHO	DRIZED GOVERNMENT RI	 EPRESENTATIVE	Ē	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE						
						32g. E-MA	L OF AUTHORI	ZED GO	VERNMEN	T REPRESE	NTATIV	E
33. SHIP NUMBER	FINAL	34. VOU	CHER NUMBER	35. AMOUNT VE CORRECT		36.	PAYMENT COMPLET	E P	ARTIAL	FINAL	37. CH	ECK NUMBER
38. S/R ACCOUNT	NUMBER	₹ 39. 8	S/R VOUCHER NUMBER	40. PA <b>I</b> D BY								
			CORRECT AND PROPER RTIFYING OFFICER	FOR PAYMENT 41c. DATE	42a. RE	CEIVED BY	(Print)					
					42b. RE	CEIVED AT	(Location)					
					42c. DA	TE REC'D (	YY/MM/DD)	42d, TO	TAL CONT	AINERS		

## Section SF 1449 - CONTINUATION SHEET

ACRN AA

CIN: M9545020SU946110001AA

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT **UNIT PRICE** AMOUNT 0001 (b)(4)**Enterprise Unified Capabilities FFP** (b)(4)**NET AMT** ITEM NO SUPPLIES/SERVICES QUANTITY UNIT **UNIT PRICE** AMOUNT 0001AA Each 1 (b)(4)(b)(4)**BTI Funding** Enterprise Unified Capabilities shall be performed in accordance with section 5.1.1 of the PWS. NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent. FOB: Destination MILSTRIP: M9545020SU94611 PURCHASE REQUEST NUMBER: M9545020SU94611 PSC CD: 7010 **NET AMT** 

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ITEM NO 0001AB SUPPLIES/SERVICES

QUANTITY 1 UNIT Each UNIT PRICE (b)(4)

AMOUNT **(b)(4)** 

NGEN Funding

FFP

Enterprise Unified Capabilities shall be performed in accordance with section 5.1.1 of the PWS.

FOB: Destination

MILSTRIP: M9545020SU04976

PURCHASE REQUEST NUMBER: M9545020SU04976

PSC CD: 7010

**NET AMT** 

(b)(4)

ACRN AB

CIN: M9545020SU049760001AB

(b)(4)

ITEM NO 0002 SUPPLIES/SERVICES

QUANTITY 1 UNIT Each UNIT PRICE (b)(4)

AMOUNT

Supporting Infrastructure & Power System

FFP

Supporting Infrastructure & Power Systems shall be performed in accordance with section 5.1.3 of the PWS.

NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination

MILSTRIP: M9545020SU94611

PURCHASE REQUEST NUMBER: M9545020SU94611

PSC CD: 7010

NET AMT

(b)(4)

(b)(4)

ACRN AA

CIN: M9545020SU946110002

Page 5 of 22

ITEM NO 0003	Base Area Network (BAN FFP	•	UNIT Each	UNIT PRICE (b)(4)	AMOUNT (b)(4)
	BAN shall be performed in NOTE: The requirements Valuation, are applicable funique identification or a life. Destination MILSTRIP: M9545020SUPURCHASE REQUEST MPSC CD: 7010	in DFARS 252.21 For this line item. 7 DoD recognized un	1-7003, Item Io The contractor nique identifica	dentification and shall provide DoD	
	ACRN AB CIN: M9545020SU04976	0002		NET AMT	(b)(4) (b)(4)
ITEM NO 0004	SUPPLIES/SERVICES Unification/Convergence FFP	QUANTITY	UNIT	UNIT PRICE	AMOUNT <b>(b)(4)</b>
				NET AMT	(b)(4)

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ITEM NO 0004AA SUPPLIES/SERVICES

QUANTITY 1 UNIT Each UNIT PRICE (b)(4)

AMOUNT **(b)(4)** 

**BTI** Funding

FFP

Unification/Convergence shall be performed in accordance with section 5.1.2 of the PWS.

NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination

MILSTRIP: M9545020SU94611

PURCHASE REQUEST NUMBER: M9545020SU94611

PSC CD: 7010

**NET AMT** 

(b)(4)

ACRN AA

CIN: M9545020SU946110004AA

(b)(4)

ITEM NO 0004AB SUPPLIES/SERVICES

QUANTITY 1 UNIT Each UNIT PRICE (b)(4)

AMOUNT

NGEN Funding

FFP

Unification/Convergence shall be performed in accordance with section 5.1.2 of the PWS.

NOTE: The requirements in DFARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination

MILSTRIP: M9545020SU04976

PURCHASE REQUEST NUMBER: M9545020SU04976

PSC CD: 7010

**NET AMT** 

(h)(4)

ACRN AB

CIN: M9545020SU049760004AB

(b)(4)

## INSPECTION AND ACCEPTANCE TERMS

# Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	N/A	N/A	N/A	N/A
0001AA	Destination	Government	Destination	Government
0001AB	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
0004	N/A	N/A	N/A	N/A
0004AA	Destination	Government	Destination	Government
0004AB	Destination	Government	Destination	Government

# DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	N/A	N/A	N/A	N/A
0001AA	28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854
0001AB	3 28-FEB-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0002	28-FEB-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0003	28-FEB-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0004	N/A	N/A	N/A	N/A
0004AA	28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

FOB: Destination

M67854

## ACCOUNTING AND APPROPRIATION DATA

AA: 17911094635 310 67854 067443 2D 463500

COST CODE: 0SU94611101S AMOUNT: (b)(4)

AB: 17011094625 310 67854 067443 2D 462500

COST CODE: 0SU04976106G AMOUNT: (b)(4)

ACRN	CLIN/SLIN	CIN	AMOUNT
AA AB	0001AA 0002 0004AA 0001AB 0003 0004AB	M9545020SU946110001AA M9545020SU946110002 M9545020SU946110004AA M9545020SU049760001AB M9545020SU049760002 M9545020SU049760004AB	(b)(4)

## CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	NOV 2013
52.203-3	Gratuities	APR 1984
52.203 <b>-</b> 6 Alt I	Restrictions On Subcontractor Sales To The Government (Sep 2006) Alternate I	OCT 1995
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	OCT 2010
52.203-17	Contractor Employee Whistleblower Rights and Requirement To Inform Employees of Whistleblower Rights	APR 2014
52.204 <b>-</b> 9	Personal Identity Verification of Contractor Personnel	JAN 2011
52.204-10	Reporting Executive Compensation and First-Tier	OCT 2018
52 204 12	Subcontract Awards	OCT 2010
52.204-13	System for Award Management Maintenance	OCT 2018
52.204-18	Commercial and Government Entity Code Maintenance	JUL 2016
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	OCT 2015
52.209-9	Updates of Publicly Available Information Regarding Responsibility Matters	OCT 2018
52.209-10	Prohibition on Contracting With Inverted Domestic Corporations	NOV 2015
52.212-3	Offeror Representations and CertificationsCommercial Items	AUG 2020
52.212 <b>-</b> 4	Contract Terms and ConditionsCommercial Items	OCT 2018
52.222 <b>-</b> 1	Notice To The Government Of Labor Disputes	FEB 1997
52.222-3	Convict Labor	JUN 2003
52.222-19	Child Labor Cooperation with Authorities and Remedies	JAN 2020
52.222-50	Combating Trafficking in Persons	JAN 2019

52.223-18	Encouraging Contractor Policies To Ban Text Messaging While Driving	AUG 2011
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.232-1	Payments	APR 1984
52.232-40	Providing Accelerated Payments to Small Business	DEC 2013
02.202 10	Subcontractors	220 2013
52.233-3	Protest After Award	AUG 1996
52.242-13	Bankruptcy	JUL 1995
52.243-1	ChangesFixed Price	AUG 1987
52.243-6	Change Order Accounting	APR 1984
52.246-2	Inspection Of SuppliesFixed Price	AUG 1996
52.246-16	Responsibility For Supplies	APR 1984
52.246-23	Limitation Of Liability	FEB 1997
52.246-24	Limitation Of LiabilityHigh-Value Items	FEB 1997
52.247-34	F.O.B. Destination	NOV 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD	SEP 2011
252.205 7000	Officials	SEI 2011
252.203-7003	Agency Office of the Inspector General	AUG 2019
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Antiterrorism Awareness Training for Contractors.	FEB 2019
252.204-7009	Limitations on the Use or Disclosure of Third-Party	OCT 2016
	Contractor Reported Cyber Incident Information	
252.204-7012	Safeguarding Covered Defense Information and Cyber	DEC 2019
	Incident Reporting	
252.204-7014	Limitations on the Use or Disclosure of Information by	MAY 2016
	Litigation Support Contractors	
252.204-7015	Notice of Authorized Disclosure of Information for Litigation	MAY 2016
	Support	
252.204-7018	Prohibition on the Acquisition of Covered Defense	DEC 2019
	Telecommunications Equipment or Services	
252.205-7000	Provision Of Information To Cooperative Agreement Holders	DEC 1991
252.211-7008	Use of Government-Assigned Serial Numbers	SEP 2010
252.225-7001	Buy American And Balance Of Payments Program Basic	DEC 2017
252.225-7012	Preference For Certain Domestic Commodities	DEC 2017
252.226-7001	Utilization of Indian Organizations and Indian-Owned	APR 2019
	Economic Enterprises, and Native Hawaiian Small Business	
	Concerns	
252.227-7015	Technical DataCommercial Items	FEB 2014
252.227 <b>-</b> 7037	Validation of Restrictive Markings on Technical Data	SEP 2016
252.232-7003	Electronic Submission of Payment Requests and Receiving	DEC 2018
	Reports	
252.232-7010	Levies on Contract Payments	DEC 2006
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	DEC 2012
252.244-7000	Subcontracts for Commercial Items	JUN 2013

## CLAUSES INCORPORATED BY FULL TEXT

 $52.204\mbox{-}25\,$  PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2020)

(a) Definitions. As used in this clause--

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means--

- (1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
- (2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);
- (3) Telecommunications or video surveillance services provided by such entities or using such equipment; or
- (4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means--

- (1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;
- (2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled--
- (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or
- (ii) For reasons relating to regional stability or surreptitious listening:
- (3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);
- (4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);
- (5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or
- (6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

### (b) Prohibition.

- (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.
- (2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.
- (c) Exceptions. This clause does not prohibit contractors from providing--
- (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.
- (d) Reporting requirement.
- (1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <a href="https://dibnet.dod.mil">https://dibnet.dod.mil</a>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <a href="https://dibnet.dod.mil">https://dibnet.dod.mil</a>.
- (2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause:

- (i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
- (ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: Any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.
- (e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

# 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS—COMMERCIAL ITEMS (DEVIATION 2018-00021) (AUG 2020)

- (a) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (a) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records—Negotiation.
- (1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.
- (2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.
- (3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.
- (b)(1) Notwithstanding the requirements of any other clauses of this contract, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (b) (1) in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—
- (i) 52.203-13, Contractor Code of Business Ethics and Conduct (OCT 2015) (41 U.S.C. 3509).
- (ii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

- (iii) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (Jul 2018) (Section 1634 of Pub. L. 115-91).
- (iv) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (AUG 2020) (Section 889(a)(1)(A) of Pub. L. 115-232).
- (v) 52.219-8, Utilization of Small Business Concerns (OCT 2018) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$700,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (vi) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- (vii) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).
- (viii) 52.222-35, Equal Opportunity for Veterans (OCT 2015) (38 U.S.C. 4212).
- (ix) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C. 793).
- (x) 52.222-37, Employment Reports on Veterans (FEB 2016) (38 U.S.C. 4212).
- (xi) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496). Flow down required in accordance with paragraph (f) of FAR clause 52.222-40.
- (xii) 52.222-41, Service Contract Labor Standards (AUG 2018) (41 U.S.C. chapter 67).
- (xiii)(A) 52.222-50, Combating Trafficking in Persons (Mar 2015) (22 U.S.C. chapter 78 and E.O. 13627).
- (B) Alternate I (Mar 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xiv) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment-Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xv) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services-Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xvi) 52.222-54, Employment Eligibility Verification (OCT 2015) (E.O. 12989).
- (xvii) 52.222-55, Minimum Wages Under Executive Order 13658 (DEC 2015).
- (xviii) 52.222-62 Paid Sick Leave Under Executive Order 13706 (JAN 2017) (E.O. 13706).
- (xix)(A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a).
- (B) Alternate I (JAN 2017) of 52.224-3.
- (xx) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xxi) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations (MAY 2014) (42 U.S.C. 1792). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.

(xxii) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx. 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor MAY include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

## 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

https://acquisition.gov/browse/index/far

(End of clause)

### 252.211-7003 ITEM UNIQUE IDENTIFICATION AND VALUATION (MAR 2016)

(a) Definitions. As used in this clause-

Automatic identification device means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

Concatenated unique item identifier means--

- (1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or
- (2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data Matrix means a two-dimensional matrix symbology, which is made up of square or, in some cases, round modules arranged within a perimeter finder pattern and uses the Error Checking and Correction 200 (ECC200) specification found within International Standards Organization (ISO)/International Electrotechnical Commission (IEC) 16022.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at http://www.acq.osd.mil/dpap/pdi/uid/iuid equivalents.html.

DoD item unique identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Government's unit acquisition cost means--

- (1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;
- (2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery; and
- (3) For items produced under a time-and-materials contract, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery.

Issuing agency means an organization responsible for assigning a globally unique identifier to an enterprise, as indicated in the Register of Issuing Agency Codes for ISO/IEC 15459, located at <a href="http://www.aimglobal.org/?Reg">http://www.aimglobal.org/?Reg</a> Authority 15459.

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Type designation means a combination of letters and numerals assigned by the Government to a major end item, assembly or subassembly, as appropriate, to provide a convenient means of differentiating between items having the same basic name and to indicate modifications and changes thereto.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at http://www.acq.osd.mil/dpap/pdi/uid/uii types.html.

- (b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.
- (c) Unique item identifier. (1) The Contractor shall provide a unique item identifier for the following:

(i) Delivered items for which the Goritems:	vernment's unit acquis	tion cost is \$5,000 or more, except for the following line
Contract line, subline, or exhibit line item No.	Item description	
SEE SCHEDU		•
(ii) Items for which the Government' the following table:	s unit acquisition cost	s less than \$5,000 that are identified in the Schedule or
Contract line, subline, or exhibit line item No.	Item description	
N/A		

(If items are identified in the Schedule, insert `See Schedule" in this table.)

- (iii) Subassemblies, components, and parts embedded within delivered items, items with warranty requirements, DoD serially managed reparables and DoD serially managed nonreparables as specified in Attachment Number ----.
- (iv) Any item of special tooling or special test equipment as defined in FAR 2.101 that have been designated for preservation and storage for a Major Defense Acquisition Program as specified in Attachment Number ----.
- (v) Any item not included in paragraphs (c)(1)(i), (ii), (iii), or
- (iv) of this clause for which the contractor creates and marks a unique item identifier for traceability.

- (2) The unique item identifier assignment and its component data element combination shall not be duplicated on any other item marked or registered in the DoD Item Unique Identification Registry by the contractor.
- (3) The unique item identifier component data elements shall be marked on an item using two dimensional data matrix symbology that complies with ISO/IEC International Standard 16022, Information technology--International symbology specification--Data matrix; ECC200 data matrix specification.
- (4) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that-
- (i) The data elements (except issuing agency code) of the unique item identifier are encoded within the data matrix symbol that is marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:
- (A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.
- (B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.
- (C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and
- (ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology-Transfer Syntax for High Capacity Automatic Data Capture Media.
- (5) Unique item identifier.
- (i) The Contractor shall--
- (A) Determine whether to--
- (1) Serialize within the enterprise identifier;
- (2) Serialize within the part, lot, or batch number; or
- (3) Use a DoD recognized unique identification equivalent (e.g. Vehicle Identification Number); and
- (B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique

identification equivalent; and for serialization within the part, lot, or batch number only: Original part, lot, or batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in MIL-STD-130, Identification Marking of U.S. Military Property, latest version;

- (C) Label shipments, storage containers and packages that contain uniquely identified items in accordance with the requirements of MIL-STD-129, Military Marking for Shipment and Storage, latest version; and
- (D) Verify that the marks on items and labels on shipments, storage containers, and packages are machine readable and conform to the applicable standards. The contractor shall use an automatic identification technology device for this verification that has been programmed to the requirements of Appendix A, MIL-STD-130, latest version.

- (ii) The issuing agency code--
- (A) Shall not be placed on the item; and
- (B) Shall be derived from the data qualifier for the enterprise identifier.
- (d) For each item that requires item unique identification under paragraph (c)(1)(i), (ii), or (iv) of this clause or when item unique identification is provided under paragraph (c)(1)(v), in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, as part of the Material Inspection and Receiving Report, the following information:
- (1) Unique item identifier.
- (2) Unique item identifier type.
- (3) Issuing agency code (if concatenated unique item identifier is used).
- (4) Enterprise identifier (if concatenated unique item identifier is used).
- (5) Original part number (if there is serialization within the original part number).
- (6) Lot or batch number (if there is serialization within the lot or batch number).
- (7) Current part number (optional and only if not the same as the original part number).
- (8) Current part number effective date (optional and only if current part number is used).
- (9) Serial number (if concatenated unique item identifier is used).
- (10) Government's unit acquisition cost.
- (11) Unit of measure.
- (12) Type designation of the item as specified in the contract schedule, if any.
- (13) Whether the item is an item of Special Tooling or Special Test Equipment.
- (14) Whether the item is covered by a warranty.
- (e) For embedded subassemblies, components, and parts that require DoD unique item identification under paragraph (c)(1)(iii) of this clause, the Contractor shall report as part of, or associated with, the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:
- (1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.
- (2) Unique item identifier of the embedded subassembly, component, or part.
- (3) Unique item identifier type.\*\*
- (4) Issuing agency code (if concatenated unique item identifier is used).\*\*
- (5) Enterprise identifier (if concatenated unique item identifier is used).\*\*
- (6) Original part number (if there is serialization within the original part number).\*\*

- (7) Lot or batch number (if there is serialization within the lot or batch number).\*\*
- (8) Current part number (optional and only if not the same as the original part number).\*\*
- (9) Current part number effective date (optional and only if current part number is used).\*\*
- (10) Serial number (if concatenated unique item identifier is used).\*\*
- (11) Description.
- \*\* Once per item.
- (f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause as follows:
- (1) End items shall be reported using the receiving report capability in Wide Area WorkFlow (WAWF) in accordance with the clause at 252.232-7003. If WAWF is not required by this contract, and the contractor is not using WAWF, follow the procedures at <a href="http://dodprocurementtoolbox.com/site/uidregistry/">http://dodprocurementtoolbox.com/site/uidregistry/</a>.
- (2) Embedded items shall be reported by one of the following methods--
- (i) Use of the embedded items capability in WAWF;
- (ii) Direct data submission to the IUID Registry following the procedures and formats at <a href="http://dodprocurementtoolbox.com/site/uidregistry/">http://dodprocurementtoolbox.com/site/uidregistry/</a>; or
- (iii) Via WAWF as a deliverable attachment for exhibit line item number (fill in) ----, Unique Item Identifier Report for Embedded Items, Contract Data Requirements List, DD Form 1423.
- (g) Subcontracts. If the Contractor acquires by subcontract any items for which item unique identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s), including subcontracts for commercial items.

(End of clause)

### 252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (DEC 2018)

- (a) Definitions. As used in this clause—
- "Department of Defense Activity Address Code (DoDAAC)" is a six position code that uniquely identifies a unit, activity, or organization.
- "Document type" means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).
- "Local processing office (LPO)" is the office responsible for payment certification when payment certification is done external to the entitlement system.
- "Payment request" and "receiving report" are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

- (b) Electronic invoicing. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation Supplement (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.
- (c) WAWF access. To access WAWF, the Contractor shall—
- (1) Have a designated electronic business point of contact in the System for Award Management at https://www.sam.gov; and
- (2) Be registered to use WAWF at <a href="https://wawf.eb.mil/">https://wawf.eb.mil/</a> following the step-by-step procedures for self-registration available at this web site.
- (d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <a href="https://wawf.eb.mil/">https://wawf.eb.mil/</a>.
- (e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.
- (f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:
- (1) Document type. The Contractor shall submit payment requests using the following document type(s): **COMBO**
- (i) For cost-type line items, including labor-hour or time-and-materials, submit a cost voucher.
- (ii) For fixed price line items—
- (A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.
- (B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.
- (iii) For customary progress payments based on costs incurred, submit a progress payment request.
- (iv) For performance based payments, submit a performance based payment request.
- (v) For commercial item financing, submit a commercial item financing request.
- (2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

[Note: The Contractor may use a WAWF "combo" document type to create some combinations of invoice and receiving report in one step.]

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	M67443
Issue By DoDAAC	M67854
Admin DoDAAC**	M67854
Inspect By DoDAAC	M67854
Ship To Code	
Ship From Code	
Mark For Code	
Service Approver (DoDAAC)	M67854 PM10
Service Acceptor (DoDAAC)	M67854 PM10
Accept at Other DoDAAC	
LPO DoDAAC	
DCAA Auditor DoDAAC	
Other DoDAAC(s)	

- (4) Payment request. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.
- (5) Receiving report. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.
- (g) WAWF point of contact.
- (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

## theresa.walters@usmc.mil

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

## Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	Nodes and Equipment po	er 36	31-AUG-2020
	Site		
Attachment 2	Performance	80	28-SEP-2020
	Specification		
Attachment 3	CDRL A001	3	18-JUN-2020

Attachment 4	CDRL A002	3	18-JUN-2020
Attachment 5	CDRL A003	3	18-JUN-2020
Attachment 6	DID for CDRL A001	3	
Attachment 7	DID for CDRL A002	1	
Attachment 8	DID for CDRL A003	3	

# PAYMENT SCHEDULE

PAYMENT SCHEDULE - MCB QUANTICO (CLINs 0001 - 0004)								
MILESTONE	PERCENT	AMOUNT						
Completion of Government Preliminary (65%) Engineering Design Review								
Completion of Government Final (95%) Engineering Design Review	(b)	o)(4)						
Completion of Power Systems Acceptance Testing and QC Inspection								
Completion of Telecommunications Systems Acceptance Testing								
Final Government Acceptance/Project Close-out								
TOTAL	\$24,029.195.24							



### **U. S. SMALL BUSINESS ADMINISTRATION**

WASHINGTON METROPOLITAN AREA DISTRICT OFFICE 409 3<sup>rd</sup> Street, S.W., 2<sup>nd</sup> FLOOR WASHINGTON, DC 20416

202-205 8800

www.sba.gov/dc

June 23, 2020

Ms. Brenda Edwards Contracting Officer Department of Defense United States Marine Corps 2200 Lester Street Quantico, VA 22134

**REFERENCE: WMADO REQUIREMENT: 0353/20/0874** 

Dear Ms. Edwards:

This letter serves as acceptance of the offer submitted by your agency on **June 22, 2020**. In accordance with Section 8(a) of the Small Business Act (15 USC 637(a) (1)) and the Federal Acquisition Regulation (FAR) Part 19.8, and the executed Partnership Agreement between the U.S. Small Business Administration (SBA) and **Department of Defense, United States Marine Corps** SBA hereby accepts your offer of the requirement for the **Modernization of the Existing Communication Infrastructure at MCB Quantico** on behalf of:

## Technology Trends Group, LLC DUNS # 019805824

The estimated dollar value of this procurement (including all options) will be **\$17.4 million.** The assigned NAICS Code is **541512** corresponding size standard of **\$30 million.** 

The offer letter indicates that this 8(a) opportunity is a:

_	Xnew requirement	or
	follow-on requireme	ent

An analysis of this requirement in accordance with the provisions set forth in Title 13 of the Code of Federal Regulations (13 C.F.R. § 124.504(c)) was not conducted related to, Adverse Impact, based upon the procurement history revealed in the offer letter.

As stated, you have designated a North American Industry Classification System (NAICS) Code of **541512** for this requirement. This NAICS Code should not be changed without prior coordination with this office. The assigned SBA Requirement Number is **0353/20/0874**. Please reference this number should you need to contact this office relative to this procurement. The SBA Requirement Number should also be referenced on any resultant contract award documents.

Pursuant to the executed Partnership Agreement the **Department of Defense, United States Marine Corps** is authorized to negotiate directly with the 8(a) BD Participant. SBA reserves the right to be present at an Agency's negotiations with the 8(a) BD Participant.

Under the terms and conditions of the Partnership Agreement, you are to execute and distribute one copy of the contract, including task orders, modifications, and purchase orders to our office within 15 business days of the award. The SBA must be consulted prior to any changes that affect the scope of the contract.

In addition, the **Department of Defense, United States Marine Corps** shall retain the responsibility for compliance with the limitations on subcontracting requirements and all applicable provisions of FAR Section 52.219-14. Upon detecting any violations of the Ostensible Subcontracting rule, procuring agencies should immediately notify the SBA's Headquarters office via an email to: BDManagement&TechnicalAssistance@sba.gov.

In the event that this requirement does not result in a contract award, please notify the SBA's District Office.

If you have any questions regarding this acceptance letter, please contact the **8(a) BD Team** on **202-205-8800**.

Thank you for your continued support of the 8(a) BD Program.

Sincerely,

Ifeyinwa Nwankwo

Business Opportunity Specialist **8(a) BD Team** 8(a) Business Development

**REMINDER:** 

Forward Offer Letters To: dcofferletters@sba.gov



SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS  OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30										PAGI	E1 OF	34		
2. CONTRACT NO.	3. AWARD/EFFECTIVE DATE 4. ORDER NUMBE							5. SOLICITATION NUMBER M6785420R4917				6. SOLICITATION ISSUE DATE 23-Jun-2020		
7. FOR SOLICITATION INFORMATION CALL:							b. TELEPHONE NUMBER (No Collect Calls) 703 784-6575				8. OFFER DUE DATE/LOCAL TIME 12:00 PM 23 Jul 2020			
9. ISSUED BY	(	CODE	67854		10. THIS ACQU	JISITION IS	· N	INREST	RICTED OR )	-	)E:	100 % FOR	:	
COMMANDER MARCORSYS ATTN: ANTHONY GENAO 2200 LESTER STREET QUANTICO VA 22134	SCOM				SMALL BUSINESS  SMALL BUSINESS  SMALL BUSINESS  WOMEN-OWNED SMALL BUSINESS (WOSB)  ELIGIBLE UNDER THE WOMEN-OWNED  SMALL BUSINESS PROGRAM  NAICS:  EDWOSB  F44642									
TEL: 703-784-6575 FAX:					SERVICE-DISABLED VETERAN-OWNED X 8(A) SIZE STANDARD:									
11. DELIVERY FOR FOB DE		DISCOUN	T TERMS		SMALL BU			13b. R	ATING	Ψ	50,000,0			
TION UNLESS BLOCK IS MARKED	3				☐ RATE	CONTRACT D ORDER ( (15 CFR 7	UNDER	14. ME	THOD OF SOL	ICITATION		_		
SEE SCHEDULE									RFQ	IFB		KFP		
15. DELIVER TO CODE M67854  MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 TEL: 703-784-4939 FAX:					16. ADMINISTE	RED BY				cc	DDE			
17a.CONTRACTOR/ CODI	<b>=</b>	FAC COD	ILITY E		18a. PAYMENT	WILL BE N	MADE BY			CC	ODE			
TELEPHONE NO.  17b. CHECK IF REMIT		FERENT A	ND PUT		18b. SUBMIT					.OCK 18a.	UNLES	S BLOCK		
SUCH ADDRESS IN O	FFER		20.		BELOW IS CHECKED   SEE ADDENDUM   21.   22.   23.   24.							P4		
ITEM NO.	SCI	HEDULE O	F SUPPLIES	SERVIC						1	OUNT			
		s	SEE SCHE	DULE										
25. ACCOUNTING AND APPROPRIATION DATA						26. TOTAL AWARD AMOUNT (For Govt. Use Only					se Only)			
27a. SOLICITATION INC										DENDA DENDA	ARE ARE	]	ATTACHED ATTACHED	
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RECOPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SP					H AND OFFER DATED OFFER DATED OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE									
30a. SIGNATURE OF OFFEROR/CONTRACTOR						) STATES O	F AMERIC	A (SIG	NATURE OF COM	NTRACTING (	OFFICER)			
30b. NAME AND TITLE OF	SIGNER		30c. DATE	SIGNED	31b. NAME	OF CONTRA	CTING OF	FFICER	(TYPE O	R PRINT)		31c. DAT	E SIGNED	
(TYPE OR PRINT)					TEL:									
					EMAI	L:								

SOLICITA	TION/CO		T/ORDER FOR TINUED)	COMMERC	IAL ITI	EMS					P/	AGE 2 OF 34
19. ITEM NO.		SC	20. SCHEDULE OF SUPPLIES/ SERVICES				21. QUANTIT	Υ	22. UNIT	23 UNIT P		24. AMOUNT
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32a. QUANTITY IN RECEIVED	COLUMN 2	:D 🗍										
32b. SIGNATURE C				32c. DATE	ONTRAC	NTRACT, EXCEPT AS NOTED:  32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERN REPRESENTATIVE					ERNMEN	Т
32e. MAILING ADD	RESS OF A	UTHORIZE	D GOVERNMENT RE	 EPRESENTATIVI	ESENTATIVE 32f. TELEPHONE NUMBER OF AUTHORI					IZED GOVERNMENT REPRESENTATIVE		
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38. S/R ACCOUNT	NUMBER	39. S/R VC	OUCHER NUMBER	40. PAID BY		,						
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		42b. RE	CEIVED AT	(Location)								
					42c. DA	TE REC'D	(YY/MM/DD)	42d. TC	OTAL CONT	AINERS		

## Section SF 1449 - CONTINUATION SHEET

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0001 1 Each

**Enterprise Unified Capabilities** 

**FFP** 

Enterprise Unified Capabilities shall be performed in accordance with section 5.1.1 of the PWS.

NOTE: The requirements in DF ARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination PSC CD: 7010

**NET AMT** 

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0002 1 Each

Supporting Infrastructure & Power System

FFP

Supporting Infrastructure & Power Systems shall be performed in accordance with section 5.1.3 of the PWS.

NOTE: The requirements in DF ARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination PSC CD: 7010

NET AMT

Page 4 of 34

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0003 1 Each

Base Area Network (BAN)

**FFP** 

BAN shall be performed in accordance with section 5.1.2 of the PWS.

NOTE: The requirements in DF ARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination PSC CD: 7010

**NET AMT** 

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0004 1 Each

Unification/Convergence

**FFP** 

Unification/Convergence shall be performed in accordance with section 5.1.2 of the PWS.

NOTE: The requirements in DF ARS 252.211-7003, Item Identification and Valuation, are applicable for this line item. The contractor shall provide DoD unique identification or a DoD recognized unique identification equivalent.

FOB: Destination PSC CD: 7010

**NET AMT** 

Page 5 of 34

ITEM NO SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE AMOUNT 0005 1 Each

Extended Warranty

**FFP** 

Extended Warranty shall be performed in accordance with section 5.5.4 of the PWS. Extended one-year warranty in addition to the warranty provided with the initial equipment purchase for a total of a two-year warranty.

FOB: Destination PSC CD: 7010

**NET AMT** 

### INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government
0005	Destination	Government	Destination	Government

### **DELIVERY INFORMATION**

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	14-MAR-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854
0002	14-MAR-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854

Page 6 of 34

0003	14-MAR-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0004	14-MAR-2022	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854
0005	14-MAR-2023	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	M67854

### CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	NOV 2013
52.203-3	Gratuities	APR 1984
52.203-6 Alt I	Restrictions On Subcontractor Sales To The Government	OCT 1995
	(Sep 2006) Alternate I	
52.203-12	Limitation On Payments To Influence Certain Federal	OCT 2010
50 000 15	Transactions	4 BB 2014
52.203-17	Contractor Employee Whistleblower Rights and Requirement	APR 2014
50 004 5	To Inform Employees of Whistleblower Rights	OCT 2010
52.204-7	System for Award Management	OCT 2018
52.204-9	Personal Identity Verification of Contractor Personnel	JAN 2011
52.204-10	Reporting Executive Compensation and First-Tier Subcontract Awards	OCT 2018
52.204-13	System for Award Management Maintenance	OCT 2018
52.204-16	Commercial and Government Entity Code Reporting	JUL 2016
52.204-17	Ownership or Control of Offeror	JUL 2016
52.204-18	Commercial and Government Entity Code Maintenance	JUL 2016
52.209-6	Protecting the Government's Interest When Subcontracting	OCT 2015
32.207 0	With Contractors Debarred, Suspended, or Proposed for	001 2015
	Debarment	
52.209-7	Information Regarding Responsibility Matters	OCT 2018
52.209-9	Updates of Publicly Available Information Regarding	OCT 2018
52.207	Responsibility Matters	2010
52.209-10	Prohibition on Contracting With Inverted Domestic	NOV 2015
	Corporations	
52.212-1 (Dev)	Instructions to Offerors - Commercial Items. (DEVIATION	MAR 2020
,	2018-O0018)	
52.212-4	Contract Terms and ConditionsCommercial Items	OCT 2018
52.222-1	Notice To The Government Of Labor Disputes	FEB 1997
52.222-3	Convict Labor	JUN 2003
52.222-19	Child Labor Cooperation with Authorities and Remedies	JAN 2020
52.222-24	Preaward On-Site Equal Opportunity Compliance Evaluation	FEB 1999
52.222-50	Combating Trafficking in Persons	JAN 2019
52.223-18	Encouraging Contractor Policies To Ban Text Messaging	AUG 2011
	While Driving	
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.232-1	Payments	APR 1984
52.233-3	Protest After Award	AUG 1996
52.242-13	Bankruptcy	JUL 1995
52.243-1	ChangesFixed Price	AUG 1987
52.243-6	Change Order Accounting	APR 1984
52.246-2	Inspection Of SuppliesFixed Price	AUG 1996
52.246-16	Responsibility For Supplies	APR 1984

52.246-23	Limitation Of Liability	FEB 1997
52.246-24	Limitation Of LiabilityHigh-Value Items	FEB 1997
52.247-34	F.O.B. Destination	NOV 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD	SEP 2011
252 202 5002	Officials Communication of the Landscape	A T T C 2010
252.203-7003	Agency Office of the Inspector General	AUG 2019
252.203-7005	Representation Relating to Compensation of Former DoD Officials	NOV 2011
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Antiterrorism Awareness Training for Contractors.	FEB 2019
252.204-7008	Compliance With Safeguarding Covered Defense Information Controls	OCT 2016
252.204-7009	Limitations on the Use or Disclosure of Third-Party	OCT 2016
	Contractor Reported Cyber Incident Information	
252.204-7012	Safeguarding Covered Defense Information and Cyber	DEC 2019
	Incident Reporting	
252.204-7014	Limitations on the Use or Disclosure of Information by	MAY 2016
	Litigation Support Contractors	
252.204-7015	Notice of Authorized Disclosure of Information for Litigation Support	MAY 2016
252.204-7018	Prohibition on the Acquisition of Covered Defense	DEC 2019
232.201 7010	Telecommunications Equipment or Services	DEC 2017
252.205-7000	Provision Of Information To Cooperative Agreement Holders	S DEC 1991
252.211-7008	Use of Government-Assigned Serial Numbers	SEP 2010
252.225-7001	Buy American And Balance Of Payments Program Basic	DEC 2017
252.225-7012	Preference For Certain Domestic Commodities	DEC 2017
252.226-7001	Utilization of Indian Organizations and Indian-Owned	APR 2019
202.220 7001	Economic Enterprises, and Native Hawaiian Small Business	111112019
	Concerns	
252.227-7015	Technical DataCommercial Items	FEB 2014
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 2016
252.232-7003	Electronic Submission of Payment Requests and Receiving	DEC 2018
	Reports	
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	DEC 2012
252.244-7000	Subcontracts for Commercial Items	JUN 2013

#### CLAUSES INCORPORATED BY FULL TEXT

### 52.204-24 REPRESENTATION REGARDING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (DEC 2019)

The Offeror shall not complete the representation in this provision if the Offeror has represented that it "does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument" in the provision at 52.204-26, Covered Telecommunications Equipment or Services--Representation, or in paragraph (v) of the provision at 52.212-3, Offeror Representations and Certifications--Commercial Items.

(a) Definitions. As used in this provision--

Covered telecommunications equipment or services, critical technology, and substantial or essential component have the meanings provided in clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

- (b) Prohibition. Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Contractors are not prohibited from providing--
- (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.
- (c) Procedures. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (<a href="https://www.sam.gov">https://www.sam.gov</a>) for entities excluded from receiving federal awards for "covered telecommunications equipment or services".
- (d) Representation. The Offeror represents that it [] will, [] will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation.
- (e) Disclosures. If the Offeror has represented in paragraph (d) of this provision that it "will" provide covered telecommunications equipment or services", the Offeror shall provide the following information as part of the offer-
- (1) A description of all covered telecommunications equipment and services offered (include brand; model number, such as original equipment manufacturer (OEM) number, manufacturer part number, or wholesaler number; and item description, as applicable);
- (2) Explanation of the proposed use of covered telecommunications equipment and services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b) of this provision;
- (3) For services, the entity providing the covered telecommunications services (include entity name, unique entity identifier, and Commercial and Government Entity (CAGE) code, if known); and
- (4) For equipment, the entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known).

(End of provision)

- 52.204-26 COVERED TELECOMMUNICATIONS EQUIPMENT OR SERVICES--REPRESENTATION (DEC 2019)
- (a) Definitions. As used in this provision, "covered telecommunications equipment or services" has the meaning provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

Page 9 of 3-
(b) Procedures. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) ( <a href="https://www.sam.gov">https://www.sam.gov</a> ) for entities excluded from receiving federal awards for "covered telecommunications equipment or services".
(c) Representation. The Offeror represents that it [ ] does, [ ] does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument.
(End of provision)
52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONSCOMMERCIAL ITEMS (MAR 2020)
The Offeror shall complete only paragraph (b) of this provision if the Offeror has completed the annual representations and certification electronically in the System for Award Management (SAM) accessed through <a href="https://www.sam.gov">https://www.sam.gov</a> . If the Offeror has not completed the annual representations and certifications electronically, the Offeror shall complete only paragraphs (c) through (v) of this provision.
(a) Definitions. As used in this provision
"Covered telecommunications equipment or services" has the meaning provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.
"Economically disadvantaged women-owned small business (EDWOSB) Concern" means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States and who are economically disadvantaged in accordance with 13 CFR part 127. It automatically qualifies as a women-owned small business eligible under the WOSB Program.
"Forced or indentured child labor" means all work or service-
(1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or
(2) Performed by any person under the age of 18 pursuant to a contract the enforcement of which can be accomplished by process or penalties.

- "Highest-level owner" means the entity that owns or controls an immediate owner of the offeror, or that owns or controls one or more entities that control an immediate owner of the offeror. No entity
- "Immediate owner" means an entity, other than the offeror, that has direct control of the offeror. Indicators of control include, but are not limited to, one or more of the following: Ownership or interlocking management, identity of interests among family members, shared facilities and equipment, and the common use of employees.
- "Inverted domestic corporation" means a foreign incorporated entity that meets the definition of an inverted domestic corporation under 6 U.S.C. 395(b), applied in accordance with the rules and definitions of 6 U.S.C. 395(c).
- "Manufactured end product" means any end product in product and service codes (PSCs) 1000-9999, except-
- (1) PSC 5510, Lumber and Related Basic Wood Materials;

owns or exercises control of the highest level owner.

(2) Product or Service Group (PSG) 87, Agricultural Supplies;

- (3) PSG 88, Live Animals;
- (4) PSG 89, Subsistence;
- (5) PSC 9410, Crude Grades of Plant Materials;
- (6) PSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) PSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) PSC 9610, Ores;
- (9) PSC 9620, Minerals, Natural and Synthetic; and
- (10) PSC 9630, Additive Metal Materials.
- "Place of manufacture" means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.
- "Predecessor" means an entity that is replaced by a successor and includes any predecessors of the predecessor.
- "Restricted business operations" means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person (as that term is defined in Section 2 of the Sudan Accountability and Divestment Act of 2007) conducting the business can demonstrate--
- (1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;
- (2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;
- (3) Consist of providing goods or services to marginalized populations of Sudan;
- (4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;
- (5) Consist of providing goods or services that are used only to promote health or education; or
- (6) Have been voluntarily suspended.
- "Sensitive technology"--
- (1) Means hardware, software, telecommunications equipment, or any other technology that is to be used specifically--
- (i) To restrict the free flow of unbiased information in Iran; or
- (ii) To disrupt, monitor, or otherwise restrict speech of the people of Iran; and

(2) Does not include information or informational materials the export of which the President does not have the authority to regulate or prohibit pursuant to section 203(b)(3) of the International Emergency Economic Powers Act (50 U.S.C. 1702(b)(3)).

"Service-disabled veteran-owned small business concern"--

- (1) Means a small business concern--
- (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
- (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.
- (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).
- "Small business concern" means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and size standards in this solicitation.
- "Small disadvantaged business concern", consistent with 13 CFR 124.1002, means a small business concern under the size standard applicable to the acquisition, that--
- (1) Is at least 51 percent unconditionally and directly owned (as defined at 13 CFR 124.105) by-
- (i) One or more socially disadvantaged (as defined at 13 CFR 124.103) and economically disadvantaged (as defined at 13 CFR 124.104) individuals who are citizens of the United States; and
- (ii) Each individual claiming economic disadvantage has a net worth not exceeding \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and
- (2) The management and daily business operations of which are controlled (as defined at 13.CFR 124.106) by individuals, who meet the criteria in paragraphs (1)(i) and (ii) of this definition.
- "Subsidiary" means an entity in which more than 50 percent of the entity is owned--
- (1) Directly by a parent corporation; or
- (2) Through another subsidiary of a parent corporation.
- "Successor" means an entity that has replaced a predecessor by acquiring the assets and carrying out the affairs of the predecessor under a new name (often through acquisition or merger). The term
- "successor" does not include new offices/divisions of the same company or a company that only changes its name. The extent of the responsibility of the successor for the liabilities of the predecessor may vary, depending on State law and specific circumstances.
- "Veteran-owned small business concern" means a small business concern-
- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned business concern" means a concern which is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

"Women-owned small business concern" means a small business concern-

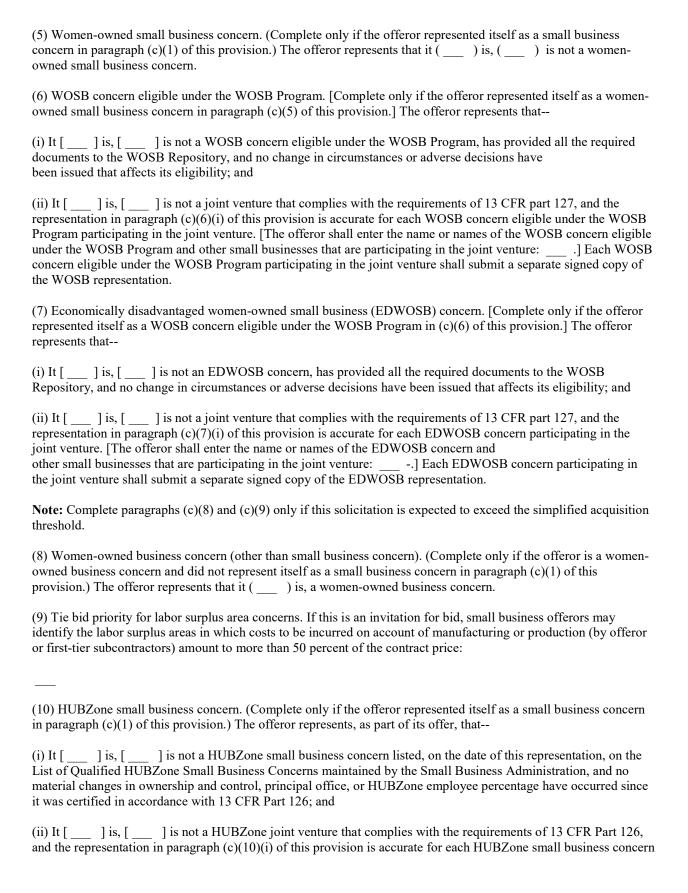
- (1) That is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of its stock is owned by one or more women; or
- (2) Whose management and daily business operations are controlled by one or more women.
- "Women-owned small business (WOSB) concern eligible under the WOSB Program (in accordance with 13 CFR part 127)", means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States.
- (b) (1) Annual Representations and Certifications. Any changes provided by the Offeror in paragraph (b)(2) of this provision do not automatically change the representations and certifications in SAM.
- (2) The offeror has completed the annual representations and certifications electronically in SAM accessed through <a href="http://www.sam.gov">http://www.sam.gov</a>. After reviewing SAM information, the Offeror verifies by submission of this offer that the representations and certifications currently posted electronically at FAR 52.212-3, Offeror Representations and Certifications--Commercial Items, have been entered or updated in the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard(s) applicable to the NAICS code(s) referenced for this solicitation), at the time this offer is submitted and are incorporated in this offer by reference (see FAR 4.1201), except for paragraphs \_\_\_\_.

[Offeror to identify the applicable paragraphs at (c) through (v) of this provision that the offeror has completed for the purposes of this solicitation only, if any.

These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted electronically on SAM.]

- (c) Offerors must complete the following representations when the resulting contract will be performed in the United States or its outlying areas. Check all that apply.
- (1) Small business concern. The offeror represents as part of its offer that it ( \_\_\_\_ ) is, ( \_\_\_\_ ) is not a small business concern.
- (2) Veteran-owned small business concern. (Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.) The offeror represents as part of its offer that it ( \_\_\_\_ ) is, ( \_\_\_\_ ) is not a veteran-owned small business concern.
- (3) Service-disabled veteran-owned small business concern. (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (c)(2) of this provision.) The offeror represents as part of its offer that it ( \_\_\_\_ ) is, ( \_\_\_\_ ) is not a service-disabled veteran-owned small business concern.
- (4) Small disadvantaged business concern. (Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.) The offeror represents that it ( \_\_\_\_ ) is, ( \_\_\_\_ ) is not a small disadvantaged business concern as defined in 13 CFR 124.1002.



business concerns participating in the	participating in the l	HUBZone joint venture: nture shall submit a separate	r the names of each of the HU] Each HUBZone small bu	
(d) Certifications a	nd representations r	required to implement provis	ions of Executive Order 1124	16
(1) Previous Contr	acts and Compliance	e. The offeror represents that	t	
	has not, par of this solicitation,		act or subcontract subject eith	er to the Equal
(ii) It ( ) has,	( ) has not, fil	led all required compliance r	eports.	
(2) Affirmative Ac	tion Compliance. The	he offeror represents that		
	rmative action progr		oped and does not have on file egulations of the Secretary of	
	not previously had c		n affirmative action programs	s requirement of the
contract is expected and belief that no I attempting to influce Congress or an empresultant contract. Standard Form LL	d to exceed \$150,00 Federal appropriated ence an officer or er ployee of a Member If any registrants unor with respect to this L, Disclosure of Lol	10.) By submission of its offer I funds have been paid or will imployee of any agency, a Morrof Congress on his or her budger the Lobbying Disclosure is contract, the offeror shall obbying Activities, to provide	tions (31 U.S.C. 1352). (Appler, the offeror certifies to the bill be paid to any person for intember of Congress, an officer chalf in connection with the at Act of 1995 have made a lob complete and submit, with its the name of the registrants. They hom payments of reasonable	best of its knowledge fluencing or or employee of ward of any obying contact on offer, OMB The offeror need not
	Certificate. (Applies es, is included in thi		Acquisition Regulation (FAI	R) 52.225-1, Buy
end product and the been mined, product those end products product that is not "domestic end products"	at for other than CO ced, or manufactured in the a COTS item and deduct." The terms "col product," "foreign ricanSupplies."	ort Sitems, the offeror has conditioned outside the United States.  The United States that do not questioned more than the component of the component are stated as a state of the component of t	n paragraph (f)(2) of this provinsidered components of unkn. The offeror shall list as foreigualify as domestic end productest in paragraph (2) of the dee-shelf (COTS) item," "computates" are defined in the claus	own origin to have gn end products ets, i.e., an end efinition of onent," "domestic
Line Item No.	Country of Origin			

(List as necessary)

- (3) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.
- (g)(1) Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Applies only if the clause at FAR 52.225-3, Buy American--Free Trade Agreements--Israeli Trade Act, is included in this solicitation.)
- (i) The offeror certifies that each end product, except those listed in paragraph (g)(1)(ii) or (g)(1)(iii) of this provision, is a domestic end product and that for other than COTS items, the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The terms ``Bahrainian, Moroccan, Omani, Panamanian, or Peruvian end product," ``commercially available off-the-shelf (COTS) item," ``component," ``domestic end product," ``end product," ``foreign end product," ``Free Trade Agreement country," ``Free Trade Agreement country end product," ``Israeli end product," and ``United States" are defined in the clause of this solicitation entitled ``Buy American--Free Trade Agreements--Israeli Trade Act."
- (ii) The offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Moroccan, Omani, Panamanian, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled ``Buy American--Free Trade Agreements--Israeli Trade Act":

Free Trade Agreement Country End Products (Other than Bahrainian, Moroccan, Omani, Panamanian, or Peruvian End Products) or Israeli End Products:

Line Item No.	<b>Country of Origin</b>

[List as necessary]

(iii) The offeror shall list those supplies that are foreign end products (other than those listed in paragraph (g)(1)(ii) of this provision) as defined in the clause of this solicitation entitled "Buy American-Free Trade Agreements-Israeli Trade Act." The offeror shall list as other foreign end products those end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS item and does not meet the component test in paragraph (2) of the definition of "domestic end product."

Other Foreign End Products:

Line Item No.	<b>Country of Origin</b>

[List as necessary]

- (iv) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.
- (2) Buy American Act-Free Trade Agreements-Israeli Trade Act Certificate, Alternate I (Jan 2004). If Alternate I to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:
- (g)(1)(ii) The offeror certifies that the following supplies are Canadian end products as defined in the clause of this solicitation entitled "Buy American -Free Trade Agreements-Israeli Trade Act":

Canadian End Products:

Line Item No.

[List as necessary]

- (3) Buy American-Free Trade Agreements-Israeli Trade Act Certificate, Alternate II (Jan 2004). If Alternate II to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:
- (g)(1)(ii) The offeror certifies that the following supplies are Canadian end products or Israeli end products as defined in the clause of this solicitation entitled "Buy American-Free Trade Agreements-Israeli Trade Act":

Canadian or Israeli End Products:

Line Item No.	<b>Country of Origin</b>

[List as necessary]

- (4) Buy American--Free Trade Agreements--Israeli Trade Act Certificate, Alternate III. If Alternate III to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:
- (g)(1)(ii) The offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Korean, Moroccan, Omani, Panamanian, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled `Buy American --Free Trade Agreements--Israeli Trade Act":

Free Trade Agreement Country End Products (Other than Bahrainian, Korean, Moroccan, Omani, Panamanian, or Peruvian End Products) or Israeli End Products:

Line Item No.	<b>Country of Origin</b>

[List as necessary]

- (5) Trade Agreements Certificate. (Applies only if the clause at FAR 52.225-5, Trade Agreements, is included in this solicitation.)
- (i) The offeror certifies that each end product, except those listed in paragraph (g)(5)(ii) of this provision, is a U.S.-made or designated country end product, as defined in the clause of this solicitation entitled "Trade Agreements".
- (ii) The offeror shall list as other end products those end products that are not U.S.-made or designated country end products.

Other End Products:

Line Item No.	<b>Country of Origin</b>

[List as necessary]

(iii) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25. For line items covered by the WTO GPA, the Government will evaluate offers of U.S.-made or designated country end products without regard to the restrictions of the Buy American statute. The Government will consider for award only offers of U.S.-made or designated country end products unless the Contracting Officer determines that there are no offers for such products or that the offers for such products are insufficient to fulfill the requirements of the solicitation.

expected to exceed the	rding Responsibility Matters (Executive Order 12689). (Applies only if the contract value is simplified acquisition threshold.) The offeror certifies, to the best of its knowledge and and/or any of its principals
	_ ] are not presently debarred, suspended, proposed for debarment, or declared ineligible fo by any Federal agency;
(2) [ ] ] [	

(2) [\_\_\_\_] Have, [\_\_\_\_] have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, state or local government contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery,

bribery, falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property; and
(3) [ ] Are, [ ] are not presently indicted for, or otherwise criminally or civilly charged by a Government entity with, commission of any of these offenses enumerated in paragraph (h)(2) of this clause; and
(4) [ ] Have, [ ] have not, within a three-year period preceding this offer, been notified of any delinquent Federal taxes in an amount that exceeds \$3,500 for which the liability remains unsatisfied.
(i) Taxes are considered delinquent if both of the following criteria apply:
(A) The tax liability is finally determined. The liability is finally determined if it has been assessed. A liability is not finally determined if there is a pending administrative or judicial challenge. In the case of a judicial challenge to the liability, the liability is not finally determined until all judicial appeal rights have been exhausted.
(B) The taxpayer is delinquent in making payment. A taxpayer is delinquent if the taxpayer has failed to pay the tax liability when full payment was due and required. A taxpayer is not delinquent in cases where enforced collection action is precluded.
(ii) Examples.
(A) The taxpayer has received a statutory notice of deficiency, under I.R.C. §6212, which entitles the taxpayer to seek Tax Court review of a proposed tax deficiency. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appear rights.
(B) The IRS has filed a notice of Federal tax lien with respect to an assessed tax liability, and the taxpayer has been issued a notice under I.R.C. §6320 entitling the taxpayer to request a hearing with the IRS Office of Appeals Contesting the lien filing, and to further appeal to the Tax Court if the IRS determines to sustain the lien filing. In the course of the hearing, the taxpayer is entitled to contest the underlying tax liability because the taxpayer has had no prior opportunity to contest the liability. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek tax court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.
(C) The taxpayer has entered into an installment agreement pursuant to I.R.C. §6159. The taxpayer is making timely payments and is in full compliance with the agreement terms. The taxpayer is not delinquent because the taxpayer is not currently required to make full payment.
(D) The taxpayer has filed for bankruptcy protection. The taxpayer is not delinquent because enforced collection action is stayed under 11 U.S.C. §362 (the Bankruptcy Code).

- (i) Certification Regarding Knowledge of Child Labor for Listed End Products (Executive Order 13126). [The Contracting Officer must list in paragraph (i)(1) any end products being acquired under this solicitation that are included in the List of Products Requiring Contractor Certification as to Forced or Indentured Child Labor, unless excluded at 22.1503(b).]
- (1) Listed end products.

Listed End Product	Listed Countries of Origin	
_		
_	_	
	Officer has identified end products and countries of original st certify to either (i)(2)(i) or (i)(2)(ii) by checking the $a_i$	
	oly any end product listed in paragraph (i)(1) of this proveresponding country as listed for that product.	vision that was mined,
produced, or manufactured in the commade a good faith effort to determine manufacture any such end product futhat it is not aware of any such use of (j) <i>Place of manufacture</i> . (Does not a manufactured end products.) For state	an end product listed in paragraph (i)(1) of this provision responding country as listed for that product. The offerce whether forced or indentured child labor was used to marnished under this contract. On the basis of those efforts of child labor.  Apply unless the solicitation is predominantly for the acquisitical purposes only, the offeror shall indicate whether expects to provide in response to this solicitation is predominantly.	or certifies that it has nine, produce, or s, the offeror certifies uisition of the place of
	eck this box if the total anticipated price of offered end planticipated price of offered end products manufactured	
(2) ( ) Outside the United State	s.	
manufactured end products.) For stat	apply unless the solicitation is predominantly for the acquistical purposes only, the offeror shall indicate whether expects to provide in response to this solicitation is predominantly.	the place of
	eck this box if the total anticipated price of offered end planticipated price of offered end products manufactured	
(2) ( ) Outside the United State	s.	
	s from the application of the Service Contract Labor Star respect to the contract also constitutes its certification as ne exempt services.)	•
[The contracting officer is to check a	box to indicate if paragraph (k)(1) or (k)(2) applies.]	
[ ] (1) Maintenance, calibration offeror ( ) does ( ) does	on, or repair of certain equipment as described in FAR 22 not certify that—	2.1003-4(c)(1). The
purposes and are sold or traded by th	riced under this contract are used regularly for other than the offeror (or subcontractor in the case of an exempt sub- e course of normal business operations;	

(ii) The services will be furnished at prices which are, or are based on, established catalog or market prices (see FAR $\underline{22.1003-4}(c)(2)(ii)$ ) for the maintenance, calibration, or repair of such equipment; and
(iii) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract will be the same as that used for these employees and equivalent employees servicing the same equipment of commercial customers.
[ ] (2) Certain services as described in FAR $\underline{22.1003-4}(d)(1)$ . The offeror ( ) does ( ) does not certify that—
(i) The services under the contract are offered and sold regularly to non-Governmental customers, and are provided by the offeror (or subcontractor in the case of an exempt subcontract) to the general public in substantial quantities in the course of normal business operations;
(ii) The contract services will be furnished at prices that are, or are based on, established catalog or market prices (see FAR <u>22.1003-4(d)(2)(iii));</u>
(iii) Each service employee who will perform the services under the contract will spend only a small portion of his or her time (a monthly average of less than 20 percent of the available hours on an annualized basis, or less than 20 percent of available hours during the contract period if the contract period is less than a month) servicing the Government contract; and
(iv) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract is the same as that used for these employees and equivalent employees servicing commercial customers.
(3) If paragraph (k)(1) or (k)(2) of this clause applies—
(i) If the offeror does not certify to the conditions in paragraph (k)(1) or (k)(2) and the Contracting Officer did not attach a Service Contract Labor Standards wage determination to the solicitation, the offeror shall notify the Contracting Officer as soon as possible; and
(ii) The Contracting Officer may not make an award to the offeror if the offeror fails to execute the certification in paragraph $(k)(1)$ or $(k)(2)$ of this clause or to contact the Contracting Officer as required in paragraph $(k)(3)(i)$ of this clause.
(l) Taxpayer Identification Number (TIN) (26 U.S.C. 6109, 31 U.S.C. 7701). (Not applicable if the offeror is required to provide this information to SAM to be eligible for award.)
(1) All offerors must submit the information required in paragraphs (l)(3) through (l)(5) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the Internal Revenue Service (IRS).
(2) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.
(3) Taxpayer Identification Number (TIN).
() TIN:
( ) TIN has been applied for.
( ) TIN is not required because:

() Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;
( ) Offeror is an agency or instrumentality of a foreign government;
( ) Offeror is an agency or instrumentality of the Federal Government.
(4) Type of organization.
( ) Sole proprietorship;
( ) Partnership;
( ) Corporate entity (not tax-exempt);
( ) Corporate entity (tax-exempt);
( ) Government entity (Federal, State, or local);
( ) Foreign government;
() International organization per 26 CFR 1.6049-4;
( ) Other
(5) Common parent.
( ) Offeror is not owned or controlled by a common parent;
( ) Name and TIN of common parent:
Name TIN
(m) Restricted business operations in Sudan. By submission of its offer, the offeror certifies that the offeror does no conduct any restricted business operations in Sudan.
(n) Prohibition on Contracting with Inverted Domestic Corporations—
(1) Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation, unless the exception at 9.108-2(b) applies or the requirement is waived in accordance with the procedures at 9.108-4.
(2) Representation. By submission of its offer, the offeror represents that
(i) It is not an inverted domestic corporation; and
(ii) It is not a subsidiary of an inverted domestic corporation.
(o) Prohibition on contracting with entities engaging in certain activities or transactions relating to Iran.
(1) The offeror shall e-mail questions concerning sensitive technology to the Department of State at CISADA106@state.gov.

- (2) Representation and Certifications. Unless a waiver is granted or an exception applies as provided in paragraph (o)(3) of this provision, by submission of its offer, the offeror—
- (i) Represents, to the best of its knowledge and belief, that the offeror does not export any sensitive technology to the government of Iran or any entities or individuals owned or controlled by, or acting on behalf or at the direction of, the government of Iran;
- (ii) Certifies that the offeror, or any person owned or controlled by the offeror, does not engage in any activities for which sanctions may be imposed under section 5 of the Iran Sanctions Act; and
- (iii) Certifies that the offeror, and any person owned or controlled by the offeror, does not knowingly engage in any transaction that exceeds \$3,500 with Iran's Revolutionary Guard Corps or any of its officials, agents, or affiliates, the property and interests in property of which are blocked pursuant to the International Emergency Economic Powers Act (50 U.S.C. 1701 et seq.) (see OFAC's Specially Designated Nationals and Blocked Persons List at https://www.treasury.gov/resource-center/sanctions/SDN-List/Pages/default.aspx).
- (3) The representation and certification requirements of paragraph (o)(2) of this provision do not apply if—
- (i) This solicitation includes a trade agreements certification (e.g., 52.212-3(g) or a comparable agency provision); and
- (ii) The offeror has certified that all the offered products to be supplied are designated country end products.
- (p) Ownership or Control of Offeror. (Applies in all solicitations when there is a requirement to be registered in SAM or a requirement to have a unique entity identifier in the solicitation.
- (1) The Offeror represents that it [ \_\_\_\_ ] has or [ \_\_\_ ] does not have an immediate owner. If the Offeror has more than one immediate owner (such as a joint venture), then the Offeror shall respond to paragraph (2) and if applicable, paragraph (3) of this provision for each participant in the joint venture.
- (2) If the Offeror indicates "has" in paragraph (p)(1) of this provision, enter the following information:

Immediate owner CAGE code:
Immediate owner legal name:
(Do not use a "doing business as" name)
Is the immediate owner owned or controlled by another entity:
[ ] Yes or [ ] No.
(3) If the Offeror indicates "yes" in paragraph (p)(2) of this provision, indicating that the immediate owner is owned or controlled by another entity, then enter the following information:

Highest level owner CAGE code: Highest level owner legal name:

(Do not use a "doing business as" name)

- (q) Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. (1) As required by section 744 and 745 of Division E of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235), and similar provisions, if contained in subsequent appropriations acts, the Government will not enter into a contract with any corporation that— (i) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless and agency has considered suspension or debarment of the corporation and made a determination that suspension or debarment is not necessary to protect the interests of the Government; or (ii) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless an agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government. (2) The Offeror represents that-is not a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability; and (ii) It is [ \_\_\_\_ ] is not [ \_\_\_\_ ] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months. (r) Predecessor of Offeror. (Applies in all solicitations that include the provision at 52.204-16, Commercial and Government Entity Code Reporting.) (1) The Offeror represents that it [ \_\_\_ ] is or [ \_\_\_ ] is not a successor to a predecessor that held a Federal contract or grant within the last three years. (2) If the Offeror has indicated 'is" in paragraph (r)(1) of this provision, enter the following information for all predecessors that held a Federal contract or grant within the last three years (if more than one predecessor, list in reverse chronological order): Predecessor CAGE code: (or mark ``Unknown"). Predecessor legal name: . (Do not use a ``doing business as" name). (t) Public Disclosure of Greenhouse Gas Emissions and Reduction Goals. Applies in all solicitations that require offerors to register in SAM (12.301(d)(1)). (1) This representation shall be completed if the Offeror received \$7.5 million or more in contract awards in the prior Federal fiscal year. The representation is optional if the Offeror received less than \$7.5 million in Federal contract awards in the prior Federal fiscal year.
- (2) Representation. [Offeror to check applicable block(s) in paragraph (t)(2)(i) and (ii)]. (i) The Offeror (itself or through its immediate owner or highest-level owner) [\_\_\_\_\_] does, [\_\_\_\_\_] does not publicly disclose greenhouse gas emissions, i.e., makes available on a publicly accessible Web site the results of a greenhouse gas inventory,

performed in accordance with an accounting standard with publicly available and consistently applied criteria, such as the Greenhouse Gas Protocol Corporate Standard. (ii) The Offeror (itself or through its immediate owner or highest-level owner) [ \_\_\_ ] does, [ \_\_\_ ] does not publicly disclose a quantitative greenhouse gas emissions reduction goal, i.e., make available on a publicly accessible Web site a target to reduce absolute emissions or emissions intensity by a specific quantity or percentage. (iii) A publicly accessible Web site includes the Offeror's own Web site or a recognized, third-party greenhouse gas emissions reporting program. (3) If the Offeror checked "does" in paragraphs (t)(2)(i) or (t)(2)(ii) of this provision, respectively, the Offeror shall provide the publicly accessible Web site(s) where greenhouse gas emissions and/or reduction goals are reported: (u)(1) In accordance with section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions), Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with an entity that requires employees or subcontractors of such entity seeking to report waste, fraud, or abuse to sign internal confidentiality agreements or statements prohibiting or otherwise restricting such employees or subcontractors from lawfully reporting such waste, fraud, or abuse to a designated investigative or law enforcement representative of a Federal department or agency authorized to receive such information. (2) The prohibition in paragraph (u)(1) of this provision does not contravene requirements applicable to Standard Form 312 (Classified Information Nondisclosure Agreement), Form 4414 (Sensitive Compartmented Information Nondisclosure Agreement), or any other form issued by a Federal department or agency governing the nondisclosure of classified information. (3) Representation. By submission of its offer, the Offeror represents that it will not require its employees or subcontractors to sign or comply with internal confidentiality agreements or statements prohibiting or otherwise restricting such employees or subcontractors from lawfully reporting waste, fraud, or abuse related to the performance of a Government contract to a designated investigative or law enforcement representative of a Federal department or agency authorized to receive such information (e.g., agency Office of the Inspector General). (v) Covered Telecommunications Equipment or Services--Representation. Section 889(a)(1)(A) of Public Law 115-232. (1) The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (https://www.sam.gov) for entities excluded from receiving federal awards for "covered telecommunications equipment or services". (2) The Offeror represents that it [] does, [] does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument.

(End of provision)

- (a) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (a) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records—Negotiation.
- (1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.
- (2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.
- (3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.
- (b)(1) Notwithstanding the requirements of any other clauses of this contract, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (b) (1) in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—
- (i) 52.203-13, Contractor Code of Business Ethics and Conduct (OCT 2015) (41 U.S.C. 3509).
- (ii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).
- (iii) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (Jul 2018) (Section 1634 of Pub. L. 115-91).
- (iv) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (AUG 2019) (Section 889(a)(1)(A) of Pub. L. 115-232).
- (v) 52.219-8, Utilization of Small Business Concerns (OCT 2018) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$700,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (vi) 52.222-17, Nondisplacement of Qualified Workers (MAY 2014) (E.O. 13495). Flow down required in accordance with paragraph (l) of FAR clause 52.222-17.
- (vii) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- (viii) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).
- (ix) 52.222-35, Equal Opportunity for Veterans (OCT 2015) (38 U.S.C. 4212).

- (x) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C. 793).
- (xi) 52.222-37, Employment Reports on Veterans (FEB 2016) (38 U.S.C. 4212).
- (xii) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496). Flow down required in accordance with paragraph (f) of FAR clause 52.222-40.
- (xiii) 52.222-41, Service Contract Labor Standards (AUG 2018) (41 U.S.C. chapter 67).
- (xiv)(A) 52.222-50, Combating Trafficking in Persons (Mar 2015) (22 U.S.C. chapter 78 and E.O. 13627).
- (B) Alternate I (Mar 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xv) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment-Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xvi) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services-Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xvii) 52.222-54, Employment Eligibility Verification (OCT 2015) (E.O. 12989).
- (xviii) 52.222-55, Minimum Wages Under Executive Order 13658 (DEC 2015).
- (xix) 52.222-62 Paid Sick Leave Under Executive Order 13706 (JAN 2017) (E.O. 13706).
- (xx)(A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a).
- (B) Alternate I (JAN 2017) of 52.224-3.
- (xxi) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xxii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations (MAY 2014) (42 U.S.C. 1792). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.
- (xxiii) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx. 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.
- (2) While not required, the contractor MAY include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

#### 52.216-1 TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Firm Fixed Price contract resulting from this solicitation.

(End of provision)

#### 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

https://acquisition.gov/browse/index/far

(End of clause)

#### 252.211-7003 ITEM UNIQUE IDENTIFICATION AND VALUATION (MAR 2016)

(a) Definitions. As used in this clause-

Automatic identification device means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

Concatenated unique item identifier means--

- (1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or
- (2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data Matrix means a two-dimensional matrix symbology, which is made up of square or, in some cases, round modules arranged within a perimeter finder pattern and uses the Error Checking and Correction 200 (ECC200) specification found within International Standards Organization (ISO)/International Electrotechnical Commission (IEC) 16022.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at http://www.acq.osd.mil/dpap/pdi/uid/iuid equivalents.html.

DoD item unique identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Government's unit acquisition cost means--

- (1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;
- (2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery; and
- (3) For items produced under a time-and-materials contract, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery.

Issuing agency means an organization responsible for assigning a globally unique identifier to an enterprise, as indicated in the Register of Issuing Agency Codes for ISO/IEC 15459, located at <a href="http://www.aimglobal.org/?Reg">http://www.aimglobal.org/?Reg</a> Authority 15459.

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Type designation means a combination of letters and numerals assigned by the Government to a major end item, assembly or subassembly, as appropriate, to provide a convenient means of differentiating between items having the same basic name and to indicate modifications and changes thereto.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at http://www.acq.osd.mil/dpap/pdi/uid/uii\_types.html.

- (b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.
- (c) Unique item identifier. (1) The Contractor shall provide a unique item identifier for the following:

(i) Delivered items for which t items:	he Government's unit acquis	tion cost is \$5,000 or more, except for the following line
Contract line, subline, or exhibit	 oit	•
line item No.	Item description	
(ii) Items for which the Govern	nment's unit acquisition cost	is less than \$5,000 that are identified in the Schedule or
the following table:		-
Contract line, subline, or exhi		
line item No.	Item description	_

(If items are identified in the Schedule, insert `See Schedule" in this table.)

- (iii) Subassemblies, components, and parts embedded within delivered items, items with warranty requirements, DoD serially managed reparables and DoD serially managed nonreparables as specified in Attachment Number ----.
- (iv) Any item of special tooling or special test equipment as defined in FAR 2.101 that have been designated for preservation and storage for a Major Defense Acquisition Program as specified in Attachment Number ----.
- (v) Any item not included in paragraphs (c)(1)(i), (ii), (iii), or
- (iv) of this clause for which the contractor creates and marks a unique item identifier for traceability.
- (2) The unique item identifier assignment and its component data element combination shall not be duplicated on any other item marked or registered in the DoD Item Unique Identification Registry by the contractor.
- (3) The unique item identifier component data elements shall be marked on an item using two dimensional data matrix symbology that complies with ISO/IEC International Standard 16022, Information technology--International symbology specification--Data matrix; ECC200 data matrix specification.
- (4) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that--

- (i) The data elements (except issuing agency code) of the unique item identifier are encoded within the data matrix symbol that is marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:
- (A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.
- (B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.
- (C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and
- (ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology-Transfer Syntax for High Capacity Automatic Data Capture Media.
- (5) Unique item identifier.
- (i) The Contractor shall--
- (A) Determine whether to--
- (1) Serialize within the enterprise identifier;
- (2) Serialize within the part, lot, or batch number; or
- (3) Use a DoD recognized unique identification equivalent (e.g. Vehicle Identification Number); and
- (B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique

identification equivalent; and for serialization within the part, lot, or batch number only: Original part, lot, or batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in MIL-STD-130, Identification Marking of U.S. Military Property, latest version;

- (C) Label shipments, storage containers and packages that contain uniquely identified items in accordance with the requirements of MIL-STD-129, Military Marking for Shipment and Storage, latest version; and
- (D) Verify that the marks on items and labels on shipments, storage containers, and packages are machine readable and conform to the applicable standards. The contractor shall use an automatic identification technology device for this verification that has been programmed to the requirements of Appendix A, MIL-STD-130, latest version.
- (ii) The issuing agency code--
- (A) Shall not be placed on the item; and
- (B) Shall be derived from the data qualifier for the enterprise identifier.
- (d) For each item that requires item unique identification under paragraph (c)(1)(i), (ii), or (iv) of this clause or when item unique identification is provided under paragraph (c)(1)(v), in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, as part of the Material Inspection and Receiving Report, the following information:

- (1) Unique item identifier.
- (2) Unique item identifier type.
- (3) Issuing agency code (if concatenated unique item identifier is used).
- (4) Enterprise identifier (if concatenated unique item identifier is used).
- (5) Original part number (if there is serialization within the original part number).
- (6) Lot or batch number (if there is serialization within the lot or batch number).
- (7) Current part number (optional and only if not the same as the original part number).
- (8) Current part number effective date (optional and only if current part number is used).
- (9) Serial number (if concatenated unique item identifier is used).
- (10) Government's unit acquisition cost.
- (11) Unit of measure.
- (12) Type designation of the item as specified in the contract schedule, if any.
- (13) Whether the item is an item of Special Tooling or Special Test Equipment.
- (14) Whether the item is covered by a warranty.
- (e) For embedded subassemblies, components, and parts that require DoD unique item identification under paragraph (c)(1)(iii) of this clause, the Contractor shall report as part of, or associated with, the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:
- (1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.
- (2) Unique item identifier of the embedded subassembly, component, or part.
- (3) Unique item identifier type.\*\*
- (4) Issuing agency code (if concatenated unique item identifier is used).\*\*
- (5) Enterprise identifier (if concatenated unique item identifier is used).\*\*
- (6) Original part number (if there is serialization within the original part number).\*\*
- (7) Lot or batch number (if there is serialization within the lot or batch number).\*\*
- (8) Current part number (optional and only if not the same as the original part number).\*\*
- (9) Current part number effective date (optional and only if current part number is used).\*\*
- (10) Serial number (if concatenated unique item identifier is used).\*\*
- (11) Description.

- \*\* Once per item.
- (f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause as follows:
- (1) End items shall be reported using the receiving report capability in Wide Area WorkFlow (WAWF) in accordance with the clause at 252.232-7003. If WAWF is not required by this contract, and the contractor is not using WAWF, follow the procedures at <a href="http://dodprocurementtoolbox.com/site/uidregistry/">http://dodprocurementtoolbox.com/site/uidregistry/</a>.
- (2) Embedded items shall be reported by one of the following methods--
- (i) Use of the embedded items capability in WAWF;
- (ii) Direct data submission to the IUID Registry following the procedures and formats at http://dodprocurementtoolbox.com/site/uidregistry/; or
- (iii) Via WAWF as a deliverable attachment for exhibit line item number (fill in) ----, Unique Item Identifier Report for Embedded Items, Contract Data Requirements List, DD Form 1423.
- (g) Subcontracts. If the Contractor acquires by subcontract any items for which item unique identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s), including subcontracts for commercial items.

(End of clause)

#### 252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (DEC 2018)

- (a) Definitions. As used in this clause—
- "Department of Defense Activity Address Code (DoDAAC)" is a six position code that uniquely identifies a unit, activity, or organization.
- "Document type" means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).
- "Local processing office (LPO)" is the office responsible for payment certification when payment certification is done external to the entitlement system.
- "Payment request" and "receiving report" are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.
- (b) Electronic invoicing. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation Supplement (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.
- (c) WAWF access. To access WAWF, the Contractor shall—
- (1) Have a designated electronic business point of contact in the System for Award Management at <a href="https://www.sam.gov">https://www.sam.gov</a>; and

- (2) Be registered to use WAWF at <a href="https://wawf.eb.mil/">https://wawf.eb.mil/</a> following the step-by-step procedures for self-registration available at this web site.
- (d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <a href="https://wawf.eb.mil/">https://wawf.eb.mil/</a>.
- (e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.
- (f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:
- (1) Document type. The Contractor shall submit payment requests using the following document type(s): **COMBO**
- (i) For cost-type line items, including labor-hour or time-and-materials, submit a cost voucher.
- (ii) For fixed price line items—
- (A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.
- (B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.
- (iii) For customary progress payments based on costs incurred, submit a progress payment request.
- (iv) For performance based payments, submit a performance based payment request.
- (v) For commercial item financing, submit a commercial item financing request.
- (2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

[Note: The Contractor may use a WAWF "combo" document type to create some combinations of invoice and receiving report in one step.]

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

#### Routing Data Table\*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	M67443
Issue By DoDAAC	M67854
Admin DoDAAC**	M67854
Inspect By DoDAAC	M67854
Ship To Code	

Ship From Code	
Mark For Code	
Service Approver (DoDAAC)	M67854 PM10
Service Acceptor (DoDAAC)	M67854 PM10
Accept at Other DoDAAC	
LPO DoDAAC	
DCAA Auditor DoDAAC	
Other DoDAAC(s)	

- (4) Payment request. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.
- (5) Receiving report. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.
- (g) WAWF point of contact.
- (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

### stephen.j.magee@usmc.mil

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

#### Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	MCB Quantico Existing	7	05-JUN-2020
	Nodes and Equipment pe	er	
	Site		
Attachment 2	Performance Work	80	05-JUN-2020
	Statement		
Attachment 3	CDRL A001	3	18-JUN-2020
Attachment 4	CDRL A002	3	18-JUN-2020
Attachment 5	CDRL A003	3	18-JUN-2020
Attachment 6	DID for CDRL A001	3	
Attachment 7	DID for CDRL A002	1	
Attachment 8	DID for CDRL A003	3	

#### **Antivirus Home Use Program (AV HUP)**

The DoD Antivirus Software License Agreement from McAfee allows active DoD employees and authorized government contractors to utilize the antivirus software for personal device protection. Home use of the antivirus products will not only protect personal PCs, but will also potentially lessen the likelihood of malicious threats being introduced to the workplace and compromising DoD networks. DISA Home Use is now being offered to government employees and defense contractors with an approved .mil email address.

#### **McAfee Internet Security**

As a member of the DoD government and defense contractor community, you can now take advantage of a 1-year subscription to McAfee Internet Security for your PC or MAC at no cost. This subscription gives you proactive security for your home PC by preventing malicious attacks and keeping you safe while you surf, search, and download files online. McAfee's Internet Security service also continuously delivers the latest software, so your protection is never out-of-date. By installing McAfee Internet Security on your home system, you'll not only be protecting your PC from malicious threats, but you'll also help your organization strengthen its IT security against transferable viruses and spyware.

Note: Please be advised, DISA Home Use licensing for McAfee Internet Security is for personal/privately purchased devices only. Do not install McAfee Internet Security on Government Furnished Equipment (GFE).

#### Instructions on how to download your copy of McAfee Internet Security:

ACTIVE SUBSCRIBERS: All existing users will be automatically extended and no further action is required.

1. Navigate to the website for your applicable platform, either PC or MAC, listed below. In addition, enter the associated "Company Code" in the appropriate field on the webpage:

Platform	URL	Company Code	Expiration
PC	www.mcafee.com/windows/dod	DIS41FBC06	20 MAR 2023
MAC	www.mcafee.com/mac/dod	DIS75F9D61	20 MAR 2023

- 2. Enter your DoD email address.
- 3. Click "Get Email".
- 4. You will receive an email from McAfee Subscriptions with your unique license key and download link.

  \*\*NOTE DO NOT download the software on your Government Furnished Equipment (GFE).\*\*

For Mac Users - If you see error "Serial Number is already used", clear your cache and log back in to get the new serial number.

#### AV HOME USE

- DISA Home Use Program instructions can be found here: https://patches.csd.disa.mil/Metadata.aspx?id=79775
   (CAC Required)
- To check your subscription, log into your McAfee My Account page (use personal email) and click "Subscriptions": https://home.mcafee.com/secure/protected/login.aspx?rfhs=1&culture=en-us
- DoD does not provide any technical assistance to home users. Home users seeking technical support
  can contact McAfee directly on the support website:
   http://home.mcafee.com/Root/Support.aspx?page=Support

AMENDMENT OF SOLICITA	TION/MODIF	ICATION OF CONTRACT	1. CONTRACTI	D CODE	PAGE OF PAGES  1 3
	EFFECTIVE DATE 5/03/2021	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE	1	5. PROJECTI	NO.(Ifapplicable)
	<b>167854</b>	7. ADMINISTERED BY (Ifother than item 6) COMMANDER MARCORSYSCOM ATTN: ANTHONY GENAO 2200 LESTER STREET QUANTICO VA 22134	COL	DE M678	54
8. NAME AND ADDRESS OF CONTRACTOR (N TECHNOLOGY TRENDS GROUP, LL.C ANN SPEYER 2121 N 15TH ST STE 300 ARLINGTON VA 22201-2686	Io., Street, County, S	tate and Zip Code)	9B. DATED (SE 10A. MOD. OF M6785420C49 10B. DATED (	EE ITEM III CONTRAC	T/ORDER NO.
CODE 481E1	EACH ITY COD		30-Sep-2020		
		APPLIES TO AMENDMENTS OF SOLIC	7	٦.	
Offer must acknowledge receipt of this amendment prior  (a) By completing Items 8 and 15, and returning  or (c) By separate letter or telegram which includes a refe RECEIVED AT THE PLACE DESIGNATED FOR THE REJECTION OF YOUR OFFER. If by virtue of this amen provided each telegram or letter makes reference to the so	copies of the amendment rence to the solicitation a RECEIPTOF OFFERS P adment you desire to chan licitation and this amend	fied in the solicitation or as amended by one of the t; (b) By acknowledging receipt of this amendment amendment numbers. FAILURE OF YOUR ACT RIOR TO THE HOUR AND DATE SPECIFIED age an offer already submitted, such change may be	on each copy of the off CKNOWLEDGMENT MAY RESULTIN made by telegram or let	TO BE	idea.
12. ACCOUNTING AND APPROPRIATION DATE	A (If required)				
		TO MODIFICATIONS OF CONTRACTS CT/ORDER NO. AS DESCRIBED IN ITE			
A. THIS CHANGE ORDER IS ISSUED PURSUA CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/OF office, appropriation date, etc.) SET FORTH	IN ITEM 14, PURS	SUANT TO THE AUTHORITY OF FAR		as changes in	n paying
C. THIS SUPPLEMENTAL AGREEMENT IS I	ENTERED INTO PU	RSUANT TO AUTHORITY OF:			A 00
χ D. OTHER (Specify type of modification and a FAR 52.212-4(c)	uthority)				
E. IMPORTANT: Contractor is not,	is required to sign	n this document and return	copies to the issuin	g office.	
14. DESCRIPTION OF AMENDMENT/MODIFIC where feasible.) Modification Control Number: sudbeckn21 The purpose of this modification is to add CLIN	1021		ation/contract subj	ect matter	
Except as provided herein, all terms and conditions of the document of the last state of the second state		DA or IOA, as heretofore changed, remains unchanged.  16A. NAME AND TITLE OF CON			or print)
Sara Uzel, LLC Manager	11116/	MOHAMED H. ELMI TEL: 703-704-6555	EMAIL: mohamed.		or print)
15B. CONTRACTOR/OFFEROF/	15C. DATE SIGNEI				C. DATE SIGNED  03-May-2021
(Signature of person authorized to sign)	4/29/2021	(Signature of Contracting Off	icer)		

EXCEPTION TO SF 30 APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## **SUMMARY OF CHANGES**

SECTION SF 1449 - CONTINUATION SHEET

SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$58,075.00 from \$24,029,195.24 to \$24,087,270.24.

### SUPPLIES OR SERVICES AND PRICES

CLIN 0005 is added as follows:

SUPPLIES/SERVICES

QUANTITY

UNIT Each

**UNIT PRICE** 

**AMOUNT** 

\$58,075.00

\$58,075.00

Passive Optical Network (PON)

**FFP** 

ITEM NO

0005

PON shall be performed in accordance with section 8.3.2.2 of the PWS

FOB: Destination

PURCHASE REQUEST NUMBER: M9545021SU14795

PSC CD: 7B22

**NET AMT** 

\$58,075.00

ACRN AC

CIN: M9545021SU147950005

\$58,075.00

# ACCOUNTING AND APPROPRIATION

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$58,075.00 from \$24,029,195.24 to \$24,087,270.24.

CLIN 0005:

Funding on CLIN 0005 is initiated as follows:

ACRN: AC

CIN: M9545021SU147950005

Acctng Data: 17111094625 310 67854 067443 2D 462500

Increase: \$58,075.00

Total: \$58,075.00

Cost Code: 1SU14795106G

## **DELIVERIES AND PERFORMANCE**

The following Delivery Schedule for CLIN 0005 has been added:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
21-MAY-2021	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

## INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 0005:

INSPECT AT INSPECT BY ACCEPT AT ACCEPT BY Government Government Government

(End of Summary of Changes)

AMENDMENT OF SOLICIT	ATION/MODI	FICATION OF CONTRACT	1. CONTRACT	ID CODE	PAGE OF PAG	
2. AMENDMENT/MODIFICATION NO. P00001	3. EFFECTIVE DATE 5/03/2021	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE	EQUISITION/PURCHASE REQ. NO.			
6. ISSUED BY  CODE  COMMANDER MARCORSYSCOM 2200 LESTER STREET QUANTICO VA 22134	M67854	7. ADMINISTERED BY (Ifother than item 6) COMMANDER MARCORSYSCOM ATTN: ANTHONY GENAO 2200 LESTER STREET QUANTICO VA 22134	CO	CODE <b>M67854</b>		
8. NAME AND ADDRESS OF CONTRACTOR TECHNOLOGY TRENDS GROUP, LL.C (b)(6) 2121 N 15TH ST STE 300 ARLINGTON VA 22201-2686	(No., Street, County,	State and Zip Code)	9B. DATED (S 10A. MOD. OF M6785420C49 10B. DATED	EE ITEM I	CT/ORDER NO.	
CODE 481E1	FACILITY (Y)	1.35.	X 30-Sep-2020			
	I. THIS ITEM ONLY	APPLIES TO AMENDMENTS OF SOLI	CITATIONS	is not exte		
Offer must acknowledge receipt of this amendment pri  (a) By completing Items 8 and 15, and returning  or (c) By separate letter or telegram which includes an RECEIVED AT THE PLACE DESIGNATED FOR THE REJECTION OF YOUR OFFER. If by virtue of this a provided each telegram or letter makes reference to the	copies of the amendmentereference to the solicitation HE RECEIPT OF OFFERS mendment you desire to che solicitation and this amen	ent; (b) By acknowledging receipt of this amendment and amendment numbers. FAILURE OF YOUR AS PRIOR TO THE HOUR AND DATE SPECIFIED nange an offer already submitted, such change may be	t on each copy of the or CKNOWLEDGMENT MAY RESULTIN e made by telegram or le	TOBE		
12. ACCOUNTING AND APPROPRIATION D. See Schedule	A I A (If required)					
13. THISIT		Y TO MODIFICATIONS OF CONTRACT ACT/ORDER NO. AS DESCRIBED IN ITI				
A. THIS CHANGE ORDER IS ISSUED PURS CONTRACT ORDER NO. IN ITEM 10A.						
B. THE ABOVE NUMBERED CONTRACT/On office, appropriation date, etc.) SET FOR C. THIS SUPPLEMENTAL AGREEMENT I	THIN ITEM 14, PU	RSUANT TO THE AUTHORITY OF FAI		as changes	in paying	
X D. OTHER (Specify type of modification and FAR 52.212-4(c)	l authority)					
E. IMPORTANT: Contractor is not,	x is required to s	ign this document and return	copies to the issuir	ng office.		
14. DESCRIPTION OF AMENDMENT/MODIF where feasible.) Modification Control Number: sudbecknown The purpose of this modification is to add CLI	211021		tation/contract sub	oject matter		
Except as provided herein, all terms and conditions of the	document referenced in Ital	mgA or EDA as heretofore changed remains unaban	ged and in full faces on	d effect		
15A. NAME AND TITLE OF SIGNER (Type o		16A. NAME AND TITLE OF COI M0HAMED H. ELMI	NT RACT ING OFF	ICER (Type		
	15C. DATE SIGN	TEL: 703-784-6555  ED 16B. UNITED STATES OF AMER	EMAIL: mohamed		6C. DATE SIGNE	
(b)(6)	4/29/2021	BY Mohamed Elm	i		03-May-2021	
	4/23/2021	(Signature of Contracting Off	ficer)			

### SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## **SUMMARY OF CHANGES**

SECTION SF 1449 - CONTINUATION SHEET

SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$58,075.00 from \$24,029,195.24 to \$24,087,270.24.

SUPPLIES OR SERVICES AND PRICES

CLIN 0005 is added as follows:

ITEM NO SUPPLIES/SERVICES

QUANTITY

UNIT Each UNIT PRICE

AMOUNT \$58,075.00

\$58,075.00

(b)(

0005

PON shall be performed in accordance with section 8.3.2.2 of the PWS

FOB: Destination

PURCHASE REQUEST NUMBER: M9545021SU14795

PSC CD: 7B22

NET AMT

\$58,075.00

ACRN AC

CIN: M9545021SU147950005

\$58,075.00

## ACCOUNTING AND APPROPRIATION

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$58,075.00 from \$24,029,195.24 to \$24,087,270.24.

CLIN 0005:

Funding on CLIN 0005 is initiated as follows:

ACRN: AC

CIN: M9545021SU147950005

Acctng Data: 17111094625 310 67854 067443 2D 462500

ACCEPT BY

Government

Increase: \$58,075.00

Total: \$58,075.00

Cost Code: 1SU14795106G

# **DELIVERIES AND PERFORMANCE**

The following Delivery Schedule for CLIN 0005 has been added:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
21-MAY-2021	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

# INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 0005:

INSPECT AT
Destination
INSPECT BY ACCEPT AT
Government
Destination

AMENDMENT OF SOLICITA	FICATION OF CONTRACT	7	1. CONTRACT ID CODE PAGE OF		PAGE OF PAGES	
	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.			5. PROJE	CT NO.(Ifapplicable)
P00002		SEE SCHEDULE				
6. ISSUED BY CODE		7. ADMINISTERED BY (Ifother than item 6)		COI	DE	
		See Item 6				
8. NAME AND ADDRESS OF CONTRACTOR ( TECHNOLOGY TRENDS GROUP, LLC	No., Street, County, S	state and Zip Code)		9A. AMENDM	ENT OF S	SOLICITATION NO.
ANN SPEYER 2121 N 15TH ST STE 300				9B. DATED (SI	EE ITEM	11)
ARLINGTON VA 22201-2686			Х	10A. MOD. OF M6785420C49	CONT RA	ACT/ORDER NO.
			V	10B. DATED (		
CODE 481E1	FACILITY COD		X	30-Sep-2020		
		APPLIES TO AMENDMENTS OF SOL	ICI	г	٦	
The above numbered solicitation is amended as set forth		1	Ш 1 с.	is extended,	is not e	xtended.
Offer must acknowledge receipt of this amendment prior (a) By completing Items 8 and 15, and returning	-			-	er submitte	d;
or (c) By separate letter or telegram which includes a ref					то ве	
RECEIVED AT THE PLACE DESIGNATED FOR THE REJECTION OF YOUR OFFER. If by virtue of this am					ter.	
provided each telegram or letter makes reference to the s	•					
12. ACCOUNTING AND APPROPRIATION DA	TA (If required)					
		TO MODIFICATIONS OF CONTRACT CT/ORDER NO. AS DESCRIBED IN IT				
A. THIS CHANGE ORDER IS ISSUED PURSU CONTRACT ORDER NO. IN ITEM 10A.	ANT TO: (Specify a	nthority) THE CHANGES SET FORTH	IN l	ITEM 14 ARE N	IADE IN	THE
B. THE ABOVE NUMBERED CONTRACT/O office, appropriation date, etc.) SET FORT					as change	s in paying
X C. THIS SUPPLEMENT AL AGREEMENT IS FAR 52.212-4(c)	ENTERED INTO PU	RSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and a	nuthority)					
E. IMPORTANT: Contractor is not,	X is required to sign	this document and return	cop	pies to the issuing	g office.	
4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  Modification Control Number: sudbeckn211369  The purpose of this modification is to provide revised payment schedule.						
Except as provided herein, all terms and conditions of the do	cument referenced in Item 9	A or 10A, as heretofore changed, remains uncha	nged	and in full force and	effect.	
15A. NAME AND TITLE OF SIGNER (Type or	print)	16A. NAME AND TITLE OF CO	NTI	RACT ING OFFI	CER (Typ	pe or print)
		TEL:		EMAIL:		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNEI		RIC/			16C. DATE SIGNED
·						
(Signature of person authorized to sign)		(Signature of Contracting Of	fice	r)		

### SECTION SF 30 BLOCK 14 CONTINUATION PAGE

# **SUMMARY OF CHANGES**

SECTION SF 1449 - CONTINUATION SHEET

The following have been modified: <u>PAYMENT SCHEDULE</u>

PAYMENT SCHEDULE – MCB QUANTICO (CLINs 0001 - 0005)						
MILESTONE	PERCENT	AMOUNT				
Completion of GPON scope	0.24%	\$58,075.00				
Costs Expended Through Februrary 2021	6.68%	\$1,607,993.56				
Costs Expended From March 2021 Through May 2021	3.47%	\$835,208.92				
Completion of Government Preliminary (65%) Engineering Design Review	14.80%	\$3,564,096.33				
Completion of Government Final (95%) Engineering Design Review	34.82%	\$8,386,988.34				
Completion of Power Systems Acceptance Testing and QC Inspection	10.00%	\$2,408,727.02				
Completion of Telecommunications Systems Acceptance Testing	15.00%	\$3,613,090.54				
Final Government Acceptance/Project Close-out	15.00%	\$3,613,090.54				
TOTAL		\$24,087,270.24				

AMENDMENT OF SOLICITA	1 CONTRACT ID C	CODE	PAGE OF PAGES		
		1			1 2
2 AMENDMENT/MODIFICATION NO P00002	EFFECTIVE DATE	4 REQUISITION/PURCHASE REQ NO SEE SCHEDULE	5 1	PROJECT	NO (Ifapplicable)
6 ISSUED BY CODE		7 ADMINISTERED BY (Ifother than item 6)	CODE		
		See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (N	No., Street, County, S	State and Zip Code)	9A. AMENDMENT	Γ OF SO	LICITATION NO.
TECHNOLOGY TRENDS GROUP, LLC (b)(6) 2121 N 15TH ST STE 300 ARLINGTON VA 22201-2686			9B. DATED (SEE )	ITEM 11	1)
ARLINGTON VA 22201-2000		X	10A. MOD. OF CO M6785420C4919	ONT RAC	T/ORDER NO.
		XE X	10B. DATED (SEI	E ITEM	13)
CODE 481E1	FACILITY COD	DE	00 00P 2020		
The above numbered solicitation is amended as set forth i				is not exter	nded
Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:  (a) By completing Items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER Ifby virtue of this amendment you desire to change an offer already submitted, such change may be made by telegramor letter, provided each telegramor letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified					
12. ACCOUNTING AND APPROPRIATION DAT	171 (11 required)				
		TO MODIFICATIONS OF CONTRACTS/ CT/ORDER NO. AS DESCRIBED IN ITE			
A. THIS CHANGE ORDER IS ISSUED PURSUA CONTRACT ORDER NO. IN ITEM 10A.	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/OR office, appropriation date, etc.) SET FORTH	I IN ITEM 14, PURS	SUANT TO THE AUTHORITY OF FAR		hanges in	n paying
X C. THIS SUPPLEMENT AL AGREEMENT IS F FAR 52.212-4(c)	ENTERED INTO PU	RSUANT TO AUTHORITY OF:			
D. OTHER (Specify type of modification and at	uthority)				
E. IMPORTANT: Contractor is not,	is required to sign	n this document and return co	opies to the issuing of	fice.	
4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  Modification Control Number: sudbeckn211369  The purpose of this modification is to provide revised payment schedule.  Security of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect  5A. NAME AND TITLE OF SIGNER (Type or print)  16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)					
15A. NAME AND TITLE OF SIGNER (Type or p	rmt)	10A. NAME AND THE OF CON	RACTING OFFICE	x (1 ype o	or print)
LED CONTRACTOR/OFFEE	160 PATE WO	TEL:	EMA L:	1	C DATE WOULD
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNEI		J.A	160	C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Office	er)	-	

### SECTION SF 30 BLOCK 14 CONTINUATION PAGE

# **SUMMARY OF CHANGES**

SECTION SF 1449 - CONTINUATION SHEET

The following have been modified: <u>PAYMENT SCHEDULE</u>

PAYMENT SCHEDULE – MCB QUANTICO (CLINs 0001 - 0005)				
MILESTONE	PERCENT	AMOUNT		
Completion of GPON scope				
Costs Expended Through Februrary 2021				
Costs Expended From March 2021 Through May 2021				
Completion of Government Preliminary (65%) Engineering Design Review	(b)(4	+)		
Completion of Government Final (95%) Engineering Design Review	_			
Completion of Power Systems Acceptance Testing and QC Inspection	_			
Completion of Telecommunications Systems Acceptance Testing	_			
Final Government Acceptance/Project Close-out				
TOTAL		\$24,087,270.24		

AMENDMENT OF SOLICITA	FICATION OF CONTRACT	1. CONTRACT ID CODE PA		PAGE OF PAGES  1 6	
2. AMENDMENT/MODIFICATION NO. P00003	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE	5	. PROJECT l	NO.(Ifapplicable)
6. ISSUED BY CODE  COMMANDER MARCORSYSCOM CODE CT 2200 LESTER STREET QUANTICO VA 22134-6050	M67854	7. ADMINISTERED BY (Ifother than item 6) COMMANDER MARCORSYSCOM ATTN: ANTHONY GENAO 2200 LESTER STREET QUANTICO VA 22134	CODE	M6785	54
8. NAME AND ADDRESS OF CONTRACTOR ( TECHNOLOGY TRENDS GROUP, LLC ANN SPEYER 2121 N 15TH ST STE 300 ARLINGTON VA 22201-2686	No., Street, County, S	X	9B. DATED (SEE 10A. MOD. OF C M6785420C4919 10B. DATED (SE	E ITEM 11	T/ORDER NO.
CODE 481E1	FACILITY COD		00 00F 2020		
The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer  Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:  (a) By completing Items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegramor letter, provided each telegramor letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.  2. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSU CONTRACT ORDER NO. IN ITEM 10A.	ANT TO: (Specify a	uthority) THE CHANGES SET FORTH IN	ITEM 14 ARE MA	ADE IN T	HE
B. THE ABOVE NUMBERED CONTRACT/O office, appropriation date, etc.) SET FORT  Y C. THIS SUPPLEMENTAL AGREEMENT IS	H IN ITEM 14, PUR	SUANT TO THE AUTHORITY OF FAR 4		changes in	n paying
X C. THIS SUPPLEMENT AL AGREEMENT IS FAR 52.212-4(c) Changes	ENTERED INTO PC	RSUANT TO AUTHORITY OF:			
D. OTHER (Specify type of modification and a	uthority)				
E. IMPORTANT: Contractor is not,	is required to sig	n this document and return1 co	pies to the issuing of	office.	
<ul> <li>14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: siskj22444 The purpose of this bilateral modification is to:</li> <li>1) extend the delivery date for Contract Line Item Numbers (CLINs) 0001AA through 0001AB, 0002, 0003 and 0004AA through 0004AB from 28 February 2022 to 30 September 2022 and</li> <li>2) To remove the term "Site Specific Requirements" from the Performance Specification document and replace it with the specific section of the Performance Specification that addresses the needed requirements, as applicable.</li> </ul>					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or	16A. NAME AND TITLE OF CONT KEVIN J. EDMOND / CONTRACT SPECIALIST	ONTRACTING OFFICER (Type or print)			
Kris R. Kurrus, LLC Manager		TEL: 703-784-1090	EMAIL: kevin.edmond2	2@usmc.mil	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNEI	D 16B. UNITED STATES OF AMERICA	CA CA		C. DATE SIGNED
(Signature of person authorized to sign)	02/17/2022	(Signature of Contracting Office	er)	—   <sup>17</sup>	7-Feb-2022

30-105-04

EXCEPTION TO SF 30 APPROVED BY OIRM 11-84 ST ANDARD FORM 30 (Rev. 10-83)

CAGE

#### SECTION SF 30 BLOCK 14 CONTINUATION PAGE

#### **SUMMARY OF CHANGES**

SECTION SF 1449 - CONTINUATION SHEET

SUPPLIES OR SERVICES AND PRICES

CLIN 0005

The manufacturer organization below has been added:
TECHNOLOGY TRENDS GROUP, LLC
2121 N 15TH ST STE 300
ARLINGTON VA 22201-2686

#### DELIVERIES AND PERFORMANCE

The following Delivery Schedule item for SUBCLIN 0001AA has been changed from:

	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
	28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854
To:				
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
	30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854
The follo	owing Delivery Schedule iter	m for SUBCLIN 000	01AB has been changed from:	
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC /

STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134

703-784-4939 FOB: Destination

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134	M67854

703-784-4939 FOB: Destination

The following Delivery Schedule item for CLIN 0002 has been changed from:

DELIVERY DATE	E QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

The following Delivery Schedule Item has been deleted from CLIN 0003:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC /
			CAGE

STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134

703-784-4939 FOB: Destination

The following Delivery Schedule item has been added to CLIN 0003:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

The following Delivery Schedule item for SUBCLIN 0004AA has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

The following Delivery Schedule item for SUBCLIN 0004AB has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC /
			CAGE

STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134

703-784-4939 FOB: Destination

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

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The Table of Contents has changed from:

# Exhibit/Attachment Table of Contents

DESCRIPTION	PAGES	DATE
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Site		
Performance	80	28-SEP-2020
Specification		
CDRL A001	3	18-JUN-2020
CDRL A002	3	18-JUN-2020
CDRL A003	3	18-JUN-2020
DID for CDRL A001	3	
DID for CDRL A002	1	
DID for CDRL A003	3	
	Nodes and Equipment per Site Performance Specification CDRL A001 CDRL A002 CDRL A003 DID for CDRL A001 DID for CDRL A002	Nodes and Equipment per 36 Site Performance 80 Specification CDRL A001 3 CDRL A002 3 CDRL A003 3 DID for CDRL A001 3 DID for CDRL A002 1

to:

# Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	Nodes and Equipment p	er 36	31-AUG-2020
	Site		
Attachment 2	Updated Performance	86	07-FEB-2022
	Specification		
Attachment 3	CDRL A001	3	18-JUN-2020
Attachment 4	CDRL A002	3	18-JUN-2020
Attachment 5	CDRL A003	3	18-JUN-2020
Attachment 6	DID for CDRL A001	3	
Attachment 7	DID for CDRL A002	1	

Attachment 8 DID for CDRL A003 3

AMENDMENT OF SOLICE	TATION/MODI	FICATION OF CONTRACT	1 CONTRACT	ID CODE	PAGE OF PAGES
AMENDMENT/MODIFICATION NO P00003	3 EFFECTIVE DATE 17-Feb-2022	4 REQUISITION/PURCHASE REQ NO SEE SCHEDULE		5 PROJECT	NO (Ifapplicable)
CODE  COMMANDER MARCORSYSCOM  CODE CT  2200 LESTER STREET  QUANTICO VA 22134-6050	M67854	7 ADMINISTERED BY (Ifother than item 6) COMMANDER MARCORSYSCOM ATTN: ANTHONY GENAO 2200 LESTER STREET QUANTICO VA 22134	COI	DE M678	854
NAME AND ADDRESS OF CONTRACT OF TECHNOLOGY TRENDS GROUP, ILC	R (No., Street, County,	State and Zip Code)	9A. AMENDMI	ENT OF SC	LICITATION NO.
(b)(6) 2121 N 151H ST STE 300 ARLINGTON VA 22201-2696			9B. DATED (SE	EE ITEM 1	1)
		X	10A. MOD. OF M6785420C491	CONTRAC 19	CT/ORDER NO.
DE 481E1	FACILITY CO.	DE X	10B. DATED ( 30-Sep-2020	SEE ITEM	13)
		APPLIES TO AMENDMENTS OF SOLICI	TATIONS		
The above numbered solicitation is amended as set			is extended,	is not exte	a dad
	he solicitation and this amen	ange an offer already submitted, such change may be m dment, and is received prior to the opening hour and o		iter,	
IT M	ODIFIES THE CONTRA	TO MODIFICATIONS OF CONTRACT SO ACT/ORDER NO. AS DESCRIBED IN ITEM	ſ 14.		
CONTRACT ORDER NO. IN ITEM 10.		authority) THE CHANGES SET FORTH IN	II EM 14 ARE N	TADE IN T	HE
office, appropriation date, etc.) SET FO C. THIS SUPPLEMENTAL AGREEMENT	RTH IN ITEM 14, PUR	O TO REFLECT THE ADMINISTRATIVE ( RSUANT TO THE AUTHORITY OF FAR 4 URSUANT TO AUTHORITY OF:		as changes i	n paying
FAR 52.212-4(c) Changes  D. OTHER (Specify type of modification a	nd authority)				
IMPORTANT: Contractor is not,	X is required to si	gn this document and return 1 co	pies to the issuing	g office.	
<ol> <li>DESCRIPTION OF AMENDMENT/MOD where feasible.)         Modification Control Number: siskj224</li> <li>The purpose of this bilateral modification is</li> <li>extend the delivery date for Contract Lin 28 February 2022 to 30 September 2022 a</li> </ol>	44 to: e Item Numbers (CLINs)				from
the Performance Specification that address	ses the needed require	rmance Specification document and replacements, as applicable.  19A or 10A, as heretofore changed, remains unchanged			n of
A. NAME AND TITLE OF SIGNER (Type (b)(6)	or print)	16A. NAME AND TITLE OF CONT KEVIN J. EDMOND / CONTRACT SPECIALIST TEL: 703-784-1090	RACTING OFFICE		or print)
B. CONTRACTOR/OFFEROR	15C. DATE SIGNE				C. DATE SIGNED
				-	
(b)(6)	02/17/2022	BY (Sentence of Control to a Office	->	1	7-Feb-2022
		(Signature of Contracting Office	1)		

### SECTION SF 30 BLOCK 14 CONTINUATION PAGE

#### **SUMMARY OF CHANGES**

SECTION SF 1449 - CONTINUATION SHEET

SUPPLIES OR SERVICES AND PRICES

CLIN 0005

The manufacturer organization below has been added: TECHNOLOGY TRENDS GROUP, LLC 2121 N 15TH ST STE 300 ARLINGTON VA 22201-2686

#### DELIVERIES AND PERFORMANCE

The following Delivery Schedule item for SUBCLIN 0001AA has been changed from:

	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
	28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854
To:				
	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
	30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854
The follo	owing Delivery Schedule iter	m for SUBCLIN 000	01AB has been changed from:	

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC /
			CAGE

STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134

703-784-4939 FOB: Destination

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET	M67854

QUANTICO VA 22134 703-784-4939 FOB: Destination

The following Delivery Schedule item for CLIN 0002 has been changed from:

DELIVERY D	OATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
28-FEB-2022		1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

The following Delivery Schedule Item has been deleted from CLIN 0003:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC /
			CAGF

STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134

703-784-4939 FOB: Destination

The following Delivery Schedule item has been added to CLIN 0003:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

The following Delivery Schedule item for SUBCLIN 0004AA has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
28-FEB-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

The following Delivery Schedule item for SUBCLIN 0004AB has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC /
			CAGE

STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134

703-784-4939 FOB: Destination

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2022	1	MARINE CORPS SYSTEMS COMMAND STEPHEN MAGEE 2200 LESTER STREET QUANTICO VA 22134 703-784-4939 FOB: Destination	M67854

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Attachment 6	DID for CDRL A001	3	
Attachment 7	DID for CDRL A002	1	
Attachment 8	DID for CDRL A003	3	

to:

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Attachment 5	CDRL A003	3	18-JUN-2020
Attachment 6	DID for CDRL A001	3	
Attachment 7	DID for CDRL A002	1	

Attachment 8 DID for CDRL A003 3

Site	C9300L-24P-4X-A	C9300L-48P-4X-A	C9300-48P-A 2X
QUAN	121	52	50
GPON	0		
INHZ	4	2	6
PKWY	0	0	
SCPA	0	0	
BAND	0	0	0
BRRK	0	0	0
WNYZ	0	0	0
ANNZ	2	1	

Total 127	55	56
-----------	----	----

C9300L-24P-4X-A	127
C9300L-48P-4X-A	55
C9300-48P-A	330
Total EUB Switches	512
C9300-48P-A With NM-8X	234
C9300-48P-A With No NM	96
STACK-T1-3M	24
CAB-SPWR-150CM	24

**NOTE: Total switches** proposed does not currently take into account the 25% growth requirement. This estimate is based on a 1 for 1 refresh and included necessary licensing to support SDA/Multi-tenancy) We will dial this number in following the VSS which will then shed light on current utilization with projected growth factored in

C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X	C9300-48P-A 7X
237	10	6	0
15			
3			
0			
0			
3			

4 Port Switch	8 Port Switch	C9500-48Y4C-A	SFP-10G-LR++=	Total Ports per Site
	0	18	950	19,944
49			0	0
		2	30	480
			12	720
			4	144
			0	0
		0	0	0
		0	0	0
		0	10	240

49	0	20	1006	21,528

<sup>\*\*</sup>These 8 port switches will convert to C9300L-24P-4X-A switches once we validate through

<sup>\*\*</sup>These 4 port switches will convert to C9300L-24P-4X-A switches once we validate through the VSS

Host Name	Device Model	C9300L-24	C9300L-48	C9300-48P-A 2X	C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X	C9300-48P-A 7X
QUAN-U03-AS-21	WS-C3560V2-24TS-S	1						
QUAN-U03-AS-14	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-34	WS-C3560V2-48TS-S		1					
QUAN-U08-AS-58	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-25	WS-C4506-E		5					
QUAN-U04-AS-46	WS-C3560V2-24TS-S	1						
QUAN-U05-AS-23	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-29	WS-C3560V2-48TS-E		1					
QUAN-U08-AS-60	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-61	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-62	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-64	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-65	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-66	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-67	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-68	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-69	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-41	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-42	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-43	WS-C4503-E			2				
QUAN-U08-AS-27	WS-C3560V2-48TS-S		1					
QUAN-U08-AS-82	WS-C4503-E			2				
QUAN-U05-AS-20	WS-C3560V2-24TS-S	1						
QUAN-U05-AS-21	WS-C3560V2-48TS-S		1					
QUAN-U08-AS-47	WS-C4503-E			2				
QUAN-U08-AS-74	WS-C4503-E			2				
QUAN-U08-AS-44	WS-C3560V2-48TS-E		1					
QUAN-U08-DR-01	WS-C6509-E							
QUAN-U08-DR-02	WS-C6509-E							
QUAN-U08-AS-04	WS-C3560V2-48TS-S		1					
QUAN-U08-AS-03	WS-C4506-E				3			
QUAN-U08-AS-38	WS-C4506-E		_		3			
QUAN-U08-AS-39	WS-C4506-E				3			

QUAN-U08-AS-40	WS-C4506-E				3		
QUAN-U08-AS-06	WS-C3560V2-48TS-S		1				
QUAN-U08-AS-21	WS-C4506-E				3		
QUAN-U08-AS-19	WS-C4506-E				3		
QUAN-U08-AS-20	WS-C4506-E				3		
QUAN-U08-AS-07	WS-C4506-E				3		
QUAN-U08-AS-08	WS-C4506-E				3		
QUAN-U08-AS-31	WS-C4506-E				3		
QUAN-U08-AS-32	WS-C4506-E						
QUAN-U04-AS-21	WS-C3560V2-48TS-E		1				
QUAN-U04-AS-20	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-22	WS-C3560V2-48TS-E		1				
QUAN-U08-AS-70	WS-C3560V2-48PS-S		1				
QUAN-U04-AS-09	WS-C3560V2-48TS-S		1				
QUAN-U04-AS-26	WS-C4506-E				3		
QUAN-U04-AS-24	WS-C3560V2-48TS-S		1				
QUAN-U08-AS-01	WS-C4506-E				3		
QUAN-U08-AS-02	WS-C4506-E				3		
QUAN-U08-AS-10	WS-C3560V2-48TS-S		1				
QUAN-U08-AS-11	WS-C4503-E			2			
QUAN-U08-AS-12	WS-C4506-E				3		
QUAN-U08-AS-46	WS-C3560V2-24TS-S	1					
QUAN-U03-AS-17	WS-C4506-E				3		
QUAN-U03-AS-03	WS-C4506-E				3		
QUAN-U03-AS-02	WS-C4506-E				3		
QUAN-U03-DR-01	WS-C6506-E						
QUAN-U03-DR-02	WS-C6506-E						
QUAN-U03-AS-04	WS-C4506-E				3		
QUAN-U08-AS-35	WS-C3560V2-48TS-E		1				
QUAN-U08-AS-37	WS-C3560V2-48TS-E		1				
QUAN-U08-AS-36	WS-C4506-E				3		
QUAN-U08-AS-17	WS-C4506-E				3		
QUAN-U08-AS-18	WS-C4506-E				3		
QUAN-U08-AS-81	WS-C3560V2-24TS-S	1					

QUAN-U03-AS-32	WS-C4503-E			2			
QUAN-U03-AS-26	WS-C3750G-48PS-S		1				
QUAN-U03-AS-40	WS-C3750X-48P-S			2			
QUAN-U03-AS-43	WS-C3750X-48P-S				3		
QUAN-U03-AS-41	WS-C3750X-48P-S				3		
QUAN-U03-AS-42	WS-C3750X-48P-S				3		
QUAN-U04-AS-07	WS-C3560V2-48TS-E		1				
QUAN-U04-AS-08	WS-C3560V2-48TS-S		1				
QUAN-U04-AS-43	WS-C4503-E			2			
QUAN-U04-AS-27	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-49	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-12	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-51	WS-C3560V2-24TS-S	1					
QUAN-U05-AS-11	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-15	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-01	WS-C4506-E				3		
QUAN-U04-AS-60	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-61	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-44	WS-C3560V2-24TS-S	1					
QUAN-U08-AS-84	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-06	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-08	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-04	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-03	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-22	WS-C3560V2-24TS-S	1					
QUAN-U02-DR-01	WS-C6506-E						
QUAN-U02-DR-02	WS-C6506-E						
QUAN-U02-AS-07	WS-C4506-E				3		
QUAN-U06-AS-07	WS-C4506-E			2			
QUAN-U06-AS-06	WS-C4503-E			2			
QUAN-U06-AS-05	WS-C4503-E			2			
QUAN-U06-AS-02	WS-C4506-E				3		
QUAN-U06-AS-08	WS-C4506-E				3		
QUAN-U06-AS-09	WS-C4506-E				3		

QUAN-U06-AS-10	WS-C4506-E				3		
QUAN-U06-AS-03	WS-C4503-E			2			
QUAN-U06-AS-28	WS-C6506-E			2			
QUAN-U06-AS-04	WS-C4503-E			2			
QUAN-U06-AS-12	WS-C4506-E				3		
QUAN-U06-DR-01	WS-C6506-E						
QUAN-U06-DR-02	WS-C6506-E						
QUAN-U06-AS-20	WS-C4506-E				3		
QUAN-U06-AS-22	WS-C4506-E				3		
QUAN-U06-AS-18	WS-C4506-E				3		
QUAN-U06-AS-13	WS-C4506-E				3		
QUAN-U06-AS-32	WS-C4503-E			2			
QUAN-U06-AS-26	WS-C3560V2-48TS-E		1				
QUAN-U06-AS-24	WS-C4503-E			2			
QUAN-U06-AS-16	WS-C4506-E				3		
QUAN-U06-AS-15	WS-C3560V2-48TS-E		1				
QUAN-U06-AS-14	WS-C4506-E				3		
QUAN-U06-AS-34	WS-C4503-E			2			
QUAN-U06-AS-31	WS-C4506-E				3		
QUAN-U06-AS-29	WS-C4506-E				3		
QUAN-U06-AS-30	WS-C4506-E				3		
QUAN-U06-AS-19	WS-C3560V2-24TS-S	1					
QUAN-U06-AS-21	WS-C3560V2-24TS-S	1					
QUAN-U06-AS-33	WS-C3560V2-24TS-S	1					
QUAN-U08-AS-72	WS-C4506-E				3		
QUAN-U08-AS-71	WS-C4506-E				3		
QUAN-U08-AS-73	WS-C4506-E				3		
QUAN-U04-AS-10	WS-C3560V2-24TS-S	1					
QUAN-U07-AS-64	WS-C3560V2-24TS-S	1					
QUAN-U07-AS-41	WS-C3560V2-24TS-S	1					
QUAN-U07-AS-58	WS-C3560V2-24TS-S	1					
QUAN-U07-AS-04	WS-C3560V2-24TS-S	1					
QUAN-U07-AS-75	WS-C3560V2-24TS-S	1					
QUAN-U07-AS-10	WS-C4506-E				3		

WS-C3560V2-48TS-S		1				
WS-C3560V2-48TS-S		1				
WS-C3560V2-24TS-S	1					
WS-C3560V2-24TS-S	1					
WS-C3560V2-24TS-S	1					
WS-C3560V2-24TS-S	1					
WS-C3560V2-48TS-S		1				
WS-C4506-E				3		
WS-C4506-E				3		
WS-C4506-E				3		
WS-C3560V2-24TS-S	1					
WS-C3560V2-24TS-S	1					
WS-C3560V2-48TS-S		1				
WS-C3560V2-48TS-S		1				
WS-C3560V2-48TS-S		1				
WS-C3560V2-24TS-S	1					
WS-C3560V2-48TS-S		1				
WS-C3560V2-24TS-S	1					
WS-C3560V2-24TS-S	1					
WS-C3560V2-24TS-S	1					
WS-C3560V2-48TS-E		1				
WS-C4506-E				3		
WS-C3560V2-24TS-S	1					
WS-C6506-E						
WS-C6506-E						
WS-C4506-E				3		
WS-C3750X-24T-S	1					
WS-C3750X-24T-S	1					
WS-C3560V2-24TS-S	1					
WS-C3750X-24T-S	1					
WS-C3560V2-24TS-S	1					
WS-C3560V2-24TS-S	1					
	WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-48TS-S WS-C4506-E WS-C4506-E WS-C4506-E WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C4506-E WS-C6506-E WS-C3750X-24T-S WS-C3750X-24T-S WS-C3750X-24T-S WS-C3560V2-24TS-S	WS-C3560V2-48TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C4506-E       WS-C4506-E         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-48TS-S       1         WS-C3560V2-24TS-S       1         WS-C4506-E       WS-C3560V2-24TS-S         WS-C6506-E       WS-C6506-E         WS-C3750X-24T-S       1         WS-C3750X-24T-S       1         WS-C3750X-24T-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1	WS-C3560V2-48TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C4506-E       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-48TS-S       1         WS-C3560V2-24TS-S       1         WS-C3750X-24T-S       1         WS-C3750X-24T-S       1         WS-C3750X-24T-S       1         WS-C3750X-24T-S       1         WS-C3560V2-24TS-S       1	WS-C3560V2-48TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C4506-E       WS-C4506-E         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-48TS-S       1         WS-C3560V2-48TS-S       1         WS-C3560V2-24TS-S       1         WS-C4506-E       WS-C4506-E         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2	WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-48TS-S       1         WS-C4506-E       3         WS-C4506-E       3         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-48TS-S       1         WS-C3560V2-48TS-S       1         WS-C3560V2-24TS-S       1         WS-C3750X-24T-S       1         WS-C3750X-24T-S       1         WS-C3560V2-24TS-S <td< td=""><td>WS-C3560V2-24TS-S WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C4506-E 3 WS-C4506-E 3 WS-C4506-E 3 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-24TS-S 1</td></td<>	WS-C3560V2-24TS-S WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C4506-E 3 WS-C4506-E 3 WS-C4506-E 3 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-24TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-48TS-S 1 WS-C3560V2-24TS-S 1

QUAN-U07-AS-65	WS-C3750X-24T-S	1				
QUAN-U07-AS-66	WS-C3750X-24T-S	1				
QUAN-U07-AS-67	WS-C3750X-24T-S	1				
QUAN-U07-AS-19	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-15	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-52	WS-C3560G-24TS-S	1				
QUAN-U07-AS-18	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-25	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-29	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-22	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-21	WS-C4506-E			3		
QUAN-U07-AS-24	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-20	WS-C3560V2-48TS-S		1			
QUAN-U07-AS-39	WS-C3560V2-48TS-E		1			
QUAN-U07-AS-45	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-46	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-23	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-32	WS-C3560V2-48TS-E		1			
QUAN-U07-AS-12	WS-C3560V2-48TS-S		1			
QUAN-U07-AS-40	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-17	WS-C4506-E			3		
QUAN-U07-AS-14	WS-C6506-E			3		
DR						
DR						
QUAN-U07-AS-27	WS-C3560V2-48TS-E		1			
QUAN-U07-AS-13	WS-C3560V2-24TS-S	1				
QUAN-U07-AS-56	WS-C4506-E			3		
QUAN-U07-AS-57	WS-C4506-E			3		
QUAN-U07-AS-55	WS-C3560V2-48TS-S		1			
QUAN-U09-AS-05	WS-C3850-48U				6	
QUAN-U07-AS-54	WS-C3560V2-24TS-S	De-Scope 1				
QUAN-U09-AS-01	WS-C3850-48U					De-Scope 7
QUAN-U09-AS-06	WS-C3850-48U		De-Scope 1			
QUAN-U09-AS-03	WS-C3850-48U					De-Scope 7

QUAN-U09-AS-02	WS-C3850-48U					De-Scope 6	
QUAN-U05-AS-02	WS-C3560V2-24TS-S	1					
QUAN-U05-AS-25	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-30	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-31	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-55	WS-C3560V2-48TS-S		1				
QUAN-U04-AS-52	WS-C3560V2-48TS-S		1				
QUAN-U08-AS-30	WS-C4506-E				3		
QUAN-U03-AS-13	WS-C3560V2-24TS-S	1					
QUAN-U08-AS-24	WS-C3560V2-24TS-S	1					
QUAN-U08-AS-22	WS-C3560V2-48TS-S		1				
QUAN-U02-AS-11	WS-C3560V2-24TS-S	1					
QUAN-U03-AS-44	WS-C3560V2-24TS-S	1					
QUAN-U03-AS-36	WS-C3560V2-24TS-S	1					
QUAN-U03-AS-37	WS-C4503-E			2			
QUAN-U03-AS-11	WS-C4506-E				3		
QUAN-U03-AS-08	WS-C3560-48TS-S		1				
QUAN-U03-AS-09	WS-C3560-48TS-S		1				
QUAN-U03-AS-18	WS-C3560-48TS-S		1				
QUAN-U03-AS-10	WS-C3560V2-24TS-S	1					
QUAN-U03-AS-06	WS-C3750G-24TS-E1U	1					
QUAN-U03-AS-35	WS-C3560V2-48TS-S		1				
QUAN-U03-AS-39	WS-C3560V2-24TS-S	1					
QUAN-U02-AS-25	WS-C3560V2-48TS-E		1				
QUAN-U02-AS-27	WS-C4503-E			2			
QUAN-U06-AS-11	WS-C4506-E				3		
QUAN-U04-AS-35	WS-C4506-E				3		
QUAN-U04-AS-19	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-48	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-04	WS-C3560V2-24TS-S	1					
QUAN-U03-AS-20	WS-C4503-E			2			
QUAN-U03-AS-15	WS-C3560V2-48TS-S		1				
QUAN-U04-AS-45	WS-C3560V2-24TS-S	1					
QUAN-U04-AS-03	WS-C4503-E			2			

	1 4						
	1						
				3			
WS-C4503-E			2				
WS-C3560G-24PS-E	1						
WS-C3560G-24PS-E	1						
WS-C3560G-24TS-E	1						
WS-C3560V2-24TS-S	1						
WS-C3560V2-48TS-S		1					
WS-C3560V2-24TS-S	1						
WS-C3560V2-24TS-S	1						
WS-C4506-E				3			
WS-C3560V2-24TS-S	1						
WS-C3560V2-24TS-S	1						
WS-C3560V2-48TS-S		1					
WS-C4506-E				3			
WS-C3560V2-24TS-S	1						
WS-C3560V2-24TS-S	1						
WS-C3560V2-24TS-S	1						
WS-C4506-E				3			
WS-C4506-E				3			
WS-C4503-E			2				
WS-C4506-E				3			
WS-C3560V2-24TS-S	1						
WS-C4506-E				3			
WS-C3560G-24TS-E	1						
WS-C6506-E							
WS-C6506-E							
WS-C4506-E				3			
WS-C6506-E				3			
WS-C6506-E				3			
WS-C6506-E				3			
WS-C6509-E	1				5		
WS-C6509-E	1				5		
WS-C6506-E	1			3			
	WS-C3560G-24PS-E WS-C3560G-24TS-E WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C3560V2-24TS-S WS-C4506-E WS-C5506-E WS-C6506-E	WS-C4506-E         WS-C4503-E         WS-C3560G-24PS-E         WS-C3560G-24TS-E         WS-C3560V2-24TS-S         WS-C4506-E         WS-C4506-E         WS-C4506-E         WS-C4506-E         WS-C3560V2-24TS-S         1         WS-C4506-E         WS-C4506-E         WS-C4506-E         WS-C4506-E         WS-C4506-E         WS-C6506-E         WS-C6506-E         WS-C6506-E         WS-C6509-E	WS-C4506-E         WS-C3560G-24PS-E       1         WS-C3560G-24PS-E       1         WS-C3560G-24TS-E       1         WS-C3560V2-24TS-S       1         WS-C4506-E       WS-C4506-E         WS-C4506-E       WS-C4506-E         WS-C3560V2-24TS-S       1         WS-C4506-E       WS-C6506-E         WS-C4506-E       WS-C6506-E         WS-C6506-E       WS-C6506-E         WS-C6506-E       WS-C6509-E         WS-C6509-E       WS-C6509-E	WS-C4506-E       2         WS-C4503-E       1         WS-C3560G-24PS-E       1         WS-C3560G-24TS-E       1         WS-C3560V2-24TS-S       1         WS-C4506-E       2         WS-C4506-E       2         WS-C4506-E       2         WS-C3560V2-24TS-S       1         WS-C4506-E       2         WS-C4506-E       3         WS-C4506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6509-E       3         WS-C6509-E       3	WS-C4506-E       3         WS-C4503-E       2         WS-C3560G-24PS-E       1         WS-C3560G-24PS-E       1         WS-C3560V2-24TS-S       1         WS-C4506-E       3         WS-C4506-E       3         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C3560V2-24TS-S       1         WS-C4506-E       3         WS-C4506-E       3         WS-C4506-E       3         WS-C4506-E       3         WS-C4506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6509-E       3	WS-C4508-E       3         WS-C4503-E       2         WS-C3560G-24PS-E       1         WS-C3560G-24PS-E       1         WS-C3560V2-24TS-E       1         WS-C3560V2-24TS-S       1         WS-C4506-E       3         WS-C4506-E       3         WS-C4506-E       3         WS-C3560G-24TS-E       1         WS-C3560G-24TS-E       1         WS-C3560G-24TS-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6506-E       3         WS-C6509-E       3         WS-C6509-E       5          WS-C6509-E<	WS-C4506-E       3         WS-C3560G-24PS-E       1         WS-C3560G-24PS-E       1         WS-C3560G-24TS-E       1         WS-C3560W2-24TS-S       1         WS-C4506-E       3         WS-C506-E       3         WS-C506-E       3         WS-C6506-E       3

QUAN-U04-AS-05	WS-C4506-E			3		
QUAN-U04-AS-06	WS-C4503-E		2			
QUAN-U99-AS-22	WS-C6506-E			3		
QUAN-U99-AS-23	WS-C6506-E			3		
QUAN-U99-AS-03	WS-C6506-E			3		
QUAN-U99-AS-04	WS-C6506-E			3		
QUAN-U04-DR-01	WS-C6506-E					
QUAN-U04-DR-02	WS-C6506-E					
QUAN-U09-AS-07	WS-C3850-48U			3		
QUAN-U05-AS-18	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-19	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-06	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-03	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-07	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-10	WS-C4503-E		De-Scope 2			
QUAN-U05-AS-04	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-05	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-01	WS-C4503-E		De-Scope 2			
QUAN-U05-AS-08	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-09	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-12	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-13	WS-C4506-E			De-Scope 3		
QUAN-U05-DR-01	WS-C6506-E					
QUAN-U05-DR-02	WS-C6506-E					
QUAN-U05-AS-14	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-15	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-22	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-17	WS-C4506-E			De-Scope 3		
QUAN-U05-AS-16	WS-C4506-E			De-Scope 3		
QUAN-U08-AS-90	WS-C3560V2-24TS-S	1	 		 	
QUAN-U05-AS-28	WS-C3560V2-24TS-S	1			 	
QUAN-U05-AS-29	WS-C3560V2-24TS-S	1				
QUAN-U02-AS-14	WS-C4506-E			3		
QUAN-U02-AS-13	WS-C4506-E			3		

QUAN-U08-AS-16	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-54	WS-C4503-E	<del>                                     </del>		2				
QUAN-U08-AS-52	WS-C3560V2-24TS-S	1						
QUAN-008-AS-32 QUAN-003-AS-27	WS-C3560V2-24TS-S	1						
QUAN-U03-AS-27 QUAN-U03-AS-28		_						
	WS-C3560V2-24TS-S	1						
QUAN-U02-AS-19	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-28	WS-C3560V2-24TS-S	1	4					
QUAN-U03-AS-30	WS-C3560V2-48TS-E	1	1					
QUAN-U03-AS-23	WS-C3560V2-24TS-S	1						
QUAN-U03-AS-22	WS-C3560V2-24TS-S	1						
QUAN-U03-AS-12	WS-C3560V2-48TS-S		1					
QUAN-U07-AS-16	WS-C3560V2-24TS-S	1						
QUAN-U09-GSAS-01	WS-C3850-48U				3			
QUAN-U08-AS-05	WS-C3560V2-24TS-S	1						
QUAN-U08-AS-55	WS-C3560V2-24TS-S	1						
DR								
DR								
	Total	121	52	50	227	10	_	
	Total	121	32	50	237	10	6	0
	Total	121	32	50	237	10	6	0
	Total	121	32	50	237	10	6	0
** Row #374 location	needs to be identified prior to							0
** Row #374 location								0
** Row #374 location  QUAN-L00-AS-01								0
	needs to be identified prior to							0
QUAN-L00-AS-01	needs to be identified prior to WS-C3750G-24TS-E1U							0
QUAN-L00-AS-01 QUAN-U99-AS-25	needs to be identified prior to WS-C3750G-24TS-E1U WS-C3750G-24TS-E1U							
QUAN-L00-AS-01 QUAN-U99-AS-25 QUAN-L00-CB-01	needs to be identified prior to WS-C3750G-24TS-E1U WS-C3750G-24TS-E1U WS-C3750G-48TS-E							
QUAN-L00-AS-01 QUAN-U99-AS-25 QUAN-L00-CB-01 QUAN-U09-GSAS-02	needs to be identified prior to WS-C3750G-24TS-E1U WS-C3750G-24TS-E1U WS-C3750G-48TS-E WS-C3850-48U							
QUAN-L00-AS-01 QUAN-U99-AS-25 QUAN-L00-CB-01 QUAN-U09-GSAS-02 QUAN-L00-AS-02	needs to be identified prior to WS-C3750G-24TS-E1U WS-C3750G-24TS-E1U WS-C3750G-48TS-E WS-C3850-48U ex4200-48t							
QUAN-L00-AS-01 QUAN-U99-AS-25 QUAN-L00-CB-01 QUAN-U09-GSAS-02 QUAN-L00-AS-02 QUAN-L00-AS-03	needs to be identified prior to WS-C3750G-24TS-E1U WS-C3750G-24TS-E1U WS-C3750G-48TS-E WS-C3850-48U ex4200-48t ex8208							
QUAN-L00-AS-01 QUAN-U99-AS-25 QUAN-L00-CB-01 QUAN-U09-GSAS-02 QUAN-L00-AS-02 QUAN-L00-AS-03 QUAN-U99-AS-11a	needs to be identified prior to  WS-C3750G-24TS-E1U  WS-C3750G-24TS-E1U  WS-C3750G-48TS-E  WS-C3850-48U  ex4200-48t  ex8208  Nexus 3132QV							
QUAN-L00-AS-01 QUAN-U99-AS-25 QUAN-L00-CB-01 QUAN-U09-GSAS-02 QUAN-L00-AS-02 QUAN-L00-AS-03 QUAN-U99-AS-11a QUAN-U99-AS-11b	needs to be identified prior to WS-C3750G-24TS-E1U WS-C3750G-24TS-E1U WS-C3750G-48TS-E WS-C3850-48U ex4200-48t ex8208 Nexus 3132QV Nexus 3132QV Nexus 9000 C9332PQ							
QUAN-L00-AS-01 QUAN-U99-AS-25 QUAN-L00-CB-01 QUAN-U09-GSAS-02 QUAN-L00-AS-02 QUAN-L00-AS-03 QUAN-U99-AS-11a QUAN-U99-AS-11b QUAN-U99-DR-01	needs to be identified prior to WS-C3750G-24TS-E1U WS-C3750G-24TS-E1U WS-C3750G-48TS-E WS-C3850-48U ex4200-48t ex8208 Nexus 3132QV Nexus 3132QV							

QUAN-UDZ-IS-01	WS-C3850-48XS				
QUAN-UDZ-OS-01	WS-C3850-48XS				
QUAN-UB1-OS-04	WS-C4500X-32				
QUAN-U08-DH-01	3745				
QUAN-U08-DH-02	3745				
QUAN-U08-CO-01	CISCO2921/K9				
QUAN-U08-DP-03	888				
QUAN-U03-AS-19	Nexus5548				
QUAN-U03-AS-24	Nexus5548				
QUAN-U08-DP-12	888				
QUAN-U07-DP-11	888				
QUAN-U07-DP-13	888				
QUAN-U07-DH-02	3745				
QUAN-U07-DH-01	3745				
QUAN-U07-DP-01	888				
QUAN-U07-AS-60	WS-C2960-8TC-S				
QUAN-U07-DP-03	CISCO2911/K9				
QUAN-U07-ES-03	SM-ES2-24				
QUAN-U07-DP-15	888				
QUAN-U07-DP-02	CISCO2911/K9				
QUAN-U07-ES-02	SM-ES2-24				
QUAN-U09-AS-04	CISCO2911/K9				
QUAN-U08-AS-13	WS-C2960-8TC-S				
QUAN-U05-AS-27	WS-C2960-8TC-S				
QUAN-U00-IS-04	WS-C3560-24TS-S				
QUAN-U99-SS-01	WS-C4503-E				
QUAN-UB1-CB-01	WS-C4948				
QUAN-UB1-IS-02	WS-C4948				
QUAN-U00-IR-01	Nexus9000 C9508 (8 Slot)				
QUAN-U00-IR-02	Nexus9000 C9508 (8 Slot)				
QUAN-UB1-OS-03	WS-C3560-24TS-S				
QUAN-UB1-OS-05	WS-C4948				
QUAN-U00-IS-03	WS-C4500X-32				
QUAN-UB1-IS-01	WS-C4503				

QUAN-UB1-OS-02	WS-C4503				
QUAN-UB1-OS-01	WS-C6506-E				
QUAN-UB1-EO-01	WS-C6506-E				
QUAN-U01-BI-01	ASR1002-X				
QUAN-UB1-OR-01	CISCO3945-CHASSIS				
QUAN-U09-AS-08	WS-C3850-12XS				
QUAN-L00-IR-01	ASR1004				
QUAN-L00-IS-01	WS-C3750G-48TS-E				

8 Port	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number
		4	Bldg_0711_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3HJ
		4	Bldg_0716_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X379
		4	Bldg_1001_Floor_0001_Room_0001_Rack_0001_	FDO1719Y0XA
		4	Bldg_1002_Floor_0001_Room_0001_Rack_0001_	FDO1437X020
		4	Bldg_1019_Floor_0001_Rm_Telco_Rack_0001_	SPE1730008V
		4	Bldg_1304_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X376
		4	Bldg_13201_Floor_0001_Room_Closet_Rack_0001_	FDO1437X039
		4	Bldg_15_Floor_0001_Room_0001_Rack_0001_	FDO1529X1WX
		4	Bldg_15000_Floor_0001_Rm_0001_Rack_0001_	FDO1643Y2NH
		4	Bldg_15001_Floor_0001_Rm_0001_Rack_0001_	FDO1643Y2NU
		4	Bldg_15002_Floor_0001_Rm_0001_Rack_0001_	FDO1643Y2RP
		4	Bldg_15004_Floor_0001_Rm_Telco1_Rack_0001_	FDO1645Y139
		4	Bldg_15005_Floor_0001_Rm_Telco1_Rack_0001_	FDO1645Y12X
		4	Bldg_15006_Floor_Basement_Room_Telco1_Rack_0001	FDO1645Y13J
		4	Bldg_15007_Floor_0001_Rm_0001_Rack_0001_	FDO1645Y13L
		4	Bldg_15008_Floor_0001_Rm_0001_Rack_0001_	FDO1643Y2RW
		4	Bldg_15009_Floor_0001_Rm_0001_Rack_0001_	FDO1645Y138
		4	Bldg_17_Floor_0001_Room_0001_Rack_0001_	FDO1437V146
		2	Bldg_17_Floor_0001_Room_0002_Rack_0001_	FDO1437V2AQ
		2	Bldg_17_Floor_2_Room_219_Rack_0001_	FXS1735Q2AB
		4	Bldg_1775_Floor_0001_Rm_Telco1_Rack_0001_	FDO1633X19P
		2	Bldg_1775_Floor_0001_Room_telco1_Rack_0001_	SPE1735003S
		2	bldg_1775_Floor_1_Room_0001_Rack_0001	FDO1437X02V
		2	bldg_1775_Floor_1_Room_0001_Rack_0001	FDO1633X19U
		4	Bldg_1776_Floor_0001_Room_Telco1_Rack_0001	SPE171500KE
		4	Bldg_1998_Floor_0001_Room_Telco_1_Rack_0001_	SPE134300YL
		4	Bldg_1999_Floor_0001_Room_0001_Rack_0001_	FDO1529X1X5
	1		Bldg_1999_Floor_0001_Room_Telco1_Rack_0001_	SMC1643006Z
	1		Bldg_1999_Floor_0001_Room_Telco1_Rack_0001_	SMC16430072
		4	bldg_2004_Floor_1_Room_0117_Rack_0001	FDO1633X19A
		2	Bldg_2004_Floor_1_Room_TELCO1_Rack_1_	FXS1732Q3ZC
		4	Bldg_2006_Floor_0001_Room_108_Rack_0001_	FXS1732Q3WE
		2	Bldg_2006_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3ZU

	2 Bldg_2006_Floor_3_Room_308_Rack_1_	FXS1731Q4AY
	2 Bldg_2006_Floor_Basement_Room_B014_Rack_1_	FDO1633X1BR
	4 Bldg_2008_Floor_0001_Room_Telco1_Rack_0003_	FXS1732Q3CN
	2 Bldg_2008_Floor_0003_Room_0003_Rack_0001_	SPE173000A4
	2 Bldg_2008_Floor_2_Room_231_Rack_2_	SPE173000C9
	4 Bldg_2009_Floor_0002_Room_0002_Rack_0001_	FXS1732Q406
	2 Bldg_2009_Floor_3_Room_332_Rack_1_	SPE172801YN
	4 Bldg_2010_Floor_0002_Rm_211_Rack_0001_	SPE17300087
	4 Bldg_2011_Floor_0001_Rm_116_Rack_0002_	SPE17300096
	4 Bldg_2013_Floor_0001_Room_0001_Rack_0001_	FDO1529X1XV
	2 Bldg_2013_Floor_1_Room_BreakRm_Rack_1_	FDO1437V110
	4 Bldg_2014_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1XG
	4 Bldg_2015_Floor_0001_Rm_Telco1_Rack_0001_	FDO1644Y2C6
	4 Bldg_2032_Floor_0001_Room_000_Rack_001	FDO1723Y2D5
	2 Bldg_2032_Floor_0001_Room_Telco1_Rack_0001_	SPE173000BS
	2 Bldg_2032_Floor_0001_Room_Telco2_Rack_0001_	FDO1633X1A2
	4 Bldg_2034_Floor_0001_Room_Telco1_Rack_0001_	SPE1728020L
	2 Bldg_2034_Floor_1_Rm_TelcoSouth_Rack_3	SPE17280208
	4 Bldg_2043_Floor_1_Rm_124_Rack_1_	FDO1636Y15K
	2 Bldg_2043_Floor_1_Room_EMB_Rack_1_	SPE134300ZY
	2 Bldg_2043_Floor_1_Room_Telco_1_Rack_0002_	FXS1731Q4AR
	4 Bldg_2045_Floor_0001_Room_0001_Rack_0001_	FDO1437V125
	4 Bldg_2048_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3W0
	4 Bldg_2076_Floor_0001_Room_0001_Rack_0001_	FXS1732Q411
	2 Bldg_2076_Floor_0001_Room_0006_Rack_0001_	FXS1732Q410
1	Bldg_2076_Floor_0001_Room_0006_Rack_0001_	SAL172264PK
1	Bldg_2076_Floor_0001_Room_0006_Rack_0001_	SAL172264PJ
	2 Bldg_2076_Floor_0002_Room_0002_Rack_0001_	FXS1732Q3ZG
	4 Bldg_2077_Floor_0002_Room_0002_Rack_0001_	FDO1529X1X4
	2 Bldg_2077_Floor_0002_Room_0210_Rack_0001_	FDO1529X263
	2 Bldg_2077_Floor_Basement_Rm_B28_Rack_0001_	FXS1732Q3WC
	4 Bldg_2079_Floor_1_Rm_138_Rack_1_	FXS1732Q412
	2 Bldg_2079_Floor_2_Rm_226_Rack_1_	SPE17280245
	4 bldg_2080_Floor_1_Room_0001_Rack_0001	FDO1437V291

	4 Bldg_2082_Floor_0001_Room_115_Rack_0001_	SPE171500KJ
	2 Bldg_2082_Floor_0001_Room_B12_Rack_0001_	FOC1109Y2F1
	4 Bldg_2084_Floor_0001_Room_Telco1_Rack_0001_	FDO1719H3KR,FDO1713Z0RP
	2 Bldg_2084_Floor_0001_Room_Telco1_Rack_0001_	FDO1720R1HM,FDO1608K119
	2 Bldg_2084_Floor_0002_Room_Telco2_Rack_0001_	FDO1720R1WE,FDO1719H3L1
	2 Bldg_2084_Floor_0003_Room_Telco3_Rack_0001_	FDO1719H3KB,FDO1722P0HQ
	4 Bldg_2100_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WP
	2 Bldg_2100_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X190
	4 Bldg_2105_Floor_0001_Room_Telco1_Rack_0001_	SPE171500L0
	2 Bldg_2105_Floor_0002_Room_Telco2_Rack_0001_	FDO1437V10K
	4 Bldg_2105T_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y19S
	4 Bldg_2106_Floor_0001_Room_0164_Rack_1_	FDO1438X004
	4 Bldg_2110_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y191
	4 Bldg_2117_Floor _0001_Room_Telco1_Rack_0001_	FDO1437X36H
	4 Bldg_2118_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V11J
	4 Bldg_2121_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3W6
	4 Bldg_2122_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y13Y
	4 Bldg_2123_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y121
	4 Bldg_2124_Floor_0001_Room_Teco1_Rack_0001_	FDO1438X05W
	4 bldg_2132_Floor_1_Room_0119_Rack_0001	FDO1437X3DS
	4 Bldg_2177_Floor_1_Room_1_Rack_Telco1_	FDO1645Y13Z
	4 Bldg_2179_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X01L
	4 Bldg_2187_Floor_0001_Room_Teco2_Rack_0001_	FDO1437X01Y
	2 Bldg_2187_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X3LL
	4 Bldg_2189_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y14Q
1	Bldg_2189A_Floor_0001_Room_Telco1_Rack_0001_	SAL1633KRTA
1	Bldg_2189A_Floor_0001_Room_Telco1_Rack_0004_	SAL17236L1N
	4 Bldg_2189N_Floor_0001_Room_Telco1_Rack_0001_	SPE173000DQ
	4 Bldg_2200_Floor_0001_Room_153A_Rack_0001_	FXS1732Q408
	2 Bldg_2200_Floor_0001_Room_B-wing_Rack_0001	SPE1343012Q
	2 Bldg_2200_Floor_0001_Room_C-wing_Rack_0001_	SPE134300VS
	2 Bldg_2200_Floor_0001_Room_Telco1_Rack_0003_	FOX1338GZZK
	2 Bldg_2200_Floor_0002_Room_207_Rack_0001_	FOX1338GWXX
	2 Bldg_2200_Floor_0002_Room_229_Rack_0001_	FXS1732Q3Z1

2 Bldg_2200_Floor_0002_Room_252_Rack_0001_	FOX1338GZZL
2 Bldg_2200_Floor_000B_Room_B20B_Rack_0002_	SPE1343012R
2 Bldg_2200_Floor_000B_Room_B65_Rack_0001_	SAL172264NQ
2 Bldg_2200_Floor_Basement_Room_A-wing_Rack_0001_	SPE1340004Z
4 Bldg_2201A_Floor_0001_Room_110_Rack_0001_	FXS1732Q3CV
2 Bldg_2201A_Floor_0001_Room_Telco1_Rack_0001_	SAL172369MW
2 Bldg_2201A_Floor_0001_Room_Telco1_Rack_0001_	SAL172264PD
4 Bldg_2202_Floor_0001_Room_105_Rack_0001_	FXS1732Q3W5
2 Bldg_2202_Floor_0002_Room_0210_Rack_0001_	SPE173000BF
2 Bldg_2202_Floor_000B_Room_0001_Rack_0001_	FXS1732Q3VQ
4 Bldg_2203_Floor_1_Room_Telco 1_Rack_1_	FOX1335GRHE
4 Bldg_2203A_Floor_0001_Room_0001_Rack_0001_	SPE171500KF
4 Bldg_2204_Floor_0001_Room_114_Rack_0001_	FDO1529X1WQ
2 Bldg_2204_Floor_Basement_Room_B17_Rack_0001_	FXS1735Q2AF
4 Bldg_2207_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3WH
2 Bldg_2207_Floor_0002_Room_0002_Rack_0002_	FDO1529X1XU
2 Bldg_2207_Floor_000B_Room_B05_Rack_0001_	FOX1338GZZE
4 Bldg_2208_Floor_1_Room_Telco1_Rack_1_	FXS1733Q0HZ
4 Bldg_2209T_Floor_1_Room_Telco1_Rack_1_	SPE1728024H
4 Bldg_2210_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024Z
2 Bldg_2210_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3WW
4 Bldg_2247_Floor_0001_Room_0001_Rack_0001_	FDO1438X02R
4 Bldg_2248_Floor_0001_Room_0001_Rack_0001_	FDO1437X02Q
4 Bldg_2249_Floor_0001_Room_0001_Rack_0001_	FDO1437V12W
4 Bldg_2300_Floor_1_Room_Telco1_Rack_1_	FXS1732Q3XD
4 Bldg_2300A_Floor_1_Room_Telco1_Rack_1_	FXS1732Q0DN
4 Bldg_2300B_Floor_1_Room_Telco1_Rack_1_	SPE173000C6
4 Bldg_2321_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RK
4 Bldg_23402_Floor_1_Room_1_Rack_1	FDO1645Y13A
4 Bldg_24004_Floor_1_Room_Telco_Rack_1_	FDO1438X01H
4 Bldg_24005_Floor_1_Room_0001_Rack_1_	FDO1437X3GR
4 Bldg_24006_Floor_0001_Room_telco10_Rack_0001_	FDO1437V0YJ
4 Bldg_24008_Floor_1_Room_0001_Rack_1_	FDO1437X3GZ
4 Bldg 24009 Floor 0001 Room 0152 Rack 0001	FXS1732Q3WY

	4 Bldg_24015_Floor_1_Room_Telco1_Rack_1_	FDO1633X18D
	4 Bldg_24017_Floor_0001_Room_telco1_Rack_0001_	FDO1633X1B0
	4 Bldg_24018_Floor_0001_Room_0001_Rack_0001_	FDO1436X3LR
	4 Bldg_24114_Floor_0001_Room_0000_Rack_0000_	FDO1704Y2SS
	4 Bldg_24142_Floor_0001_Room_Office_Rack_0001_	FDO1437V12H
	4 Bldg_24144_Floor_0001_Room_0001_Rack_0001_	FDO1436X22U
	4 Bldg_24157_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X1AK
	4 Bldg_24164_Floor_0001_Room_0169_Rack_0001_	FXS1646Q40C
	2 Bldg_24164_Floor_0001_Room_117_Rack_0001_	SPE17300085
	2 Bldg_24164_Floor_0002_Room_0229_Rack_0001_	FXS1647Q04E
	4 Bldg_24180_Floor_0001_Room_0001_Rack_0001_	FDO1436X3KV
	4 Bldg_24191_Floor_0001_Room_0001_Rack_0001_	FDO1438X018
	4 Bldg_24192_Floor_0001_Rm_Telco1_Rack_0001_	FDO1633X1B3
	2 Bldg_24192_Floor_1_Rm_Telco1_Rack_0001_	FDO1633X19L
	4 Bldg_24193_Floor_1_Rm_Telco1_Rack_0001_	FDO1633X19T
	4 Bldg_24193A_Floor_1_Room_Telco 1_Rack_1_	FDO1645Y19A
	4 Bldg_24194_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X19F
	4 Bldg_24195_Floor_0001_Room_0001_Rack_0001_	FDO1645Y199
	4 Bldg_24196_Floor_1_Room_Telco1_Rack_1_	FDO1437V28G
	4 Bldg_24197_Floor_0001_Room_telco1_Rack_0001_	FDO1437X3DK
	4 bldg_24200_Floor_1_Room_0149_Rack_0001	FDO1529X1X6
	4 Bldg_24202_Floor_1_Room_143_Rack_1_	FXS1731Q4AV
	4 Bldg_24203_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y12V
1	Bldg_24204_Floor_0001_Room_Telco1_Rack_0003-Row-0004_	SAL172369MY
1	Bldg_24204_Floor_0001_Room_Telco1_Rack_0003-Row-0004_	SAL1718474L
1	Bldg_26100	
1	Bldg_26100	
	4 Bldg_26100_Floor_0001_Room_Telco1_Rack_0001_	SPE173000D1
	2 Bldg_26100_Floor_1_Room_RWC1_Rack_1_	FDO1746Z0JL
	2 Bldg_26100_Floor_1_Room_RWC2_Rack_1_	FDO1745P23K
	4 Bldg_26101_Floor_0001_Room_0000_Rack_0001	FDO1710Y0N2
	4 Bldg_26133_Floor_1_Room_Telco1_Rack_1_	FDO1746H070
	4 Bldg_26143_Floor_1_Room_Telco1_Rack_1_	FDO1437X3DV
	4 Bldg 26144 Floor 1 Room Telco1 Rack 1	FDO1438X05A

	4 Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746H0ME
	2 Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746P0Y9
	4 Bldg_2650_Floor_1_Room_1_Rack_1	FDO1746H0MK
	4 Bldg_27001_Floor_0001_Room_0001_Rack_0001_	FDO1437V0W4
	4 Bldg_27007_Floor_0001_Room_0001_Rack_0001_	FDO1438X03L
	4 Bldg_27028T_Floor_0001_Room_Telco1_Rack_01_	FOC1623V0TW
	4 Bldg_27046_Floor_0001_Room_0001_Rack_0001_	FDO1437V0ZB
	4 Bldg_27067_Floor_0001_Room_0001_Rack_0001_	FDO1438X02T
	4 Bldg_27200_Floor_1_Room_Telco1_Rack_1_	FDO1437X380
	4 Bldg_27210_Floor_0001_Room_604_Rack_0001_	FDO1437V0YM
	4 Bldg_27211_Floor_0001_Room_S4_Rack_0001_	SPE173000B9
	4 Bldg_27231_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X015
	4 Bldg_27241_Floor_0001_Rm_Telco1_Rack_0001_	FDO1633X185
	4 Bldg_27250_Floor_0001_Rm_Telco1_Rack_0001_	FDO1529X1XH
	2 Bldg_27250_Floor_0001_Room_telco1_Rack_0001_	FDO1437V22T
	4 Bldg_27251_Floor_0001_Room_0001_Rack_0001_	FDO1437V0X3
	4 Bldg_27270_Floor_0001_Room_0001_Rack_0001_	FDO1437V272
	4 Bldg_27275_Floor_2_Room_206_Rack_2_	FDO1528X0CG
	4 Bldg_27277_Floor_2_Room_206_Rack_2_	FDO1633X1AD
	4 Bldg_27279_Floor_0001_Room_telco10_Rack_0001_	FDO1438X036
	4 Bldg_27281_Floor_0001_Rm_Telco1_Rack_0001_	FXS1732Q3EE
	4 Bldg_27282_Floor_0001_Room_0001_Rack_0001_	SAL172369MS
1	Bldg_27282	
1	Bldg_27282	
	4 Bldg_27290TX_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X1P5
	4 Bldg_27400_Floor_0001_Room_0001_Rack_0001_	FDO1437X356
	4 Bldg_27402_Floor_0001_Room_0001_Rack_0008	FOX1614GXY4
	2 Bldg_27402_Floor_0001_Room_0001_Rack_0008_	SPE154901XJ
	2 Bldg_27402_Floor_0001_Room_Telco1_Rack_0001	FDO1633X1AY
	4 BLDG_2741_FLR_02_RM_209_RN2_U30	FCW1951D0BJ,FCW1951C0EY
De-Sco	ope 4 Bldg_27410_Floor_0001_Room_135_Rack_0001_	FDO1437V12M
De-Sco	ope 2 BLDG_27410_FLR_01_RM_129_RN2_U12	FOC1951X0S4,FOC1951U0R1,
De-Sco	ope 2 BLDG_27410_FLR_01_RM_135_R1_U39	FCW1951D10R
De-Sco	ope 2 BLDG_27410_FLR_01_RM_141_RN3_U26B	FOC1938X1K7,FCW1941C01R

	De-Scope 2 BLDG_27410_FLR_01_RM_145_RACK_RN1_U17	FOC1951U0QV,FOC1951U0G4,
	4 Bldg_28000_Floor_1_Room_Telco 1_Rack_1_	FDO1645Y18M
	4 Bldg_28009_Floor_1_Room_Telco1_Rack_1_	FDO1645Y19F
	4 Bldg_3015_Floor_0001_Room_0001_Rack_0001_	FDO1645Y19U
	4 Bldg_3015A_Floor_0001_Room_0001_Rack_0001_	FDO1437X00W
	4 Bldg_3017_Floor_1_Room_Telco1_Rack_1_	FDO1738Y2P1
	4 Bldg_3019_Floor_0001_Room_Telco1_Rack_0001	FDO1633X19S
	4 Bldg_3025_Floor_0001_Rm_Telco1_Rack_0001_	SPE1728024S
	4 Bldg_3032_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3JT
	4 Bldg_3045_Floor_0001_Room_0001_Rack_0001_	FDO1437X02W
	4 Bldg_3049_Floor_0001_Room_#0001_Rack_0001_	FDO1709Y1TR
	4 Bldg_3065_Floor_1_Room_Telco1_Rack_1_	FDO1437V0XT
	4 Bldg_3076_Floor_0001_Room_0001_Rack_0001_	FDO1437V231
	4 Bldg_3077_Floor_0001_Room_0001_Rack_0001_	FDO1645Y1AE
	2 Bldg_3077_Floor_0002_Room_LAN1_Rack_0001_	FXS1733Q0HG
	4 Bldg_3078_Floor_0001_Room_115_Rack_0001_	FXS1732Q0DL
	2 Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FDO1431Z0Z2
	2 Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FDO1431Z0YM
	2 Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FDO1431Z0ZJ
	2 Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FDO1438X022
	2 Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FOC1006Z3K2
	4 Bldg_3081T_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X19W
	4 Bldg_3081T2_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RQ
	4 Bldg_3083_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WT
	4 Bldg_3083A_Floor_1_Room_102_Rack_1_	FXS1733Q0HE
	4 Bldg_3086_Floor_0001_Room_COMPRM_Rack_0001_	SPE173000C8
	4 Bldg_3087_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3XM
	4 Bldg_3088_Floor_01_Room_Telco_01_B-Wing_Rack_01_	FDO1437V0Y5
	4 Bldg_3089_Floor_0001_Room_0001_Rack_0001_	FDO1437V0Y3
	4 Bldg_3090_Floor_1_Room_Telco 1_Rack_1_	FDO1645Y19C
	4 Bldg_3094_Floor_0001_Room_Telco1_Rack_0001_	FXS1733Q0J8
	4 Bldg_3094T_Floor_1_Room_Telco 1_Rack_1_	FDO1633X1A9
	4 Bldg_3095_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V0XF
	4 Bldg_3097_Floor_0001_Room_Telco1_Rack_0001_	SPE171500L6
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4 Bldg_3098_Floor_0001_Room_105_BreakFix	FOC1623V0UF
2 Bldg_3098_Floor_0001_Room_Telco1_Rack_0001_	SPE172801Z0
2 Bldg_3098_Floor_0002_Room_Telco2_Rack_0001_	FXS1735Q2E8
2 Bldg_3098_Floor_1_Room_Server	FOC1139Y3M8
2 Bldg_3098_Floor_1_Room_Server	FOC1139Y3JW
2 Bldg_3098_Floor_1_Room_Server	FOC1431Y4V9
4 Bldg_3099_Floor_01_Room_Telco_01_Rack_01_	FDO1437X02G
4 Bldg_3100_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X1AZ
4 Bldg_3101_Floor_1_Room_Telco1_Rack_1_	FDO1710Y0PC
4 Bldg_3169_Floor_0001_Room_0001_Rack_0001_	FDO1437V0XY
4 Bldg_3186_Floor_1_Room_NB33_Rack_Telco1_	SPE172801YM
4 Bldg_3202_Floor_1_Room_Telco1_Rack_1_	FDO1437V0XE
4 Bldg_3209_Floor_1_Room_Telco_Rack_1_	FDO1704Y2X4
4 Bldg_3228_Floor_2_Room_Telco_1_Rack_1_	FDO1633X19C
4 Bldg_3229_Floor_0001_Room_StagingRM_Rack_0004_	FOX1338GWWK
4 Bldg_3230_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V24U
4 Bldg_3232_Floor_1_Room_Telco_1_Rack_0001_	FDO1645Y14W
4 Bldg_3240_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X38R
4 Bldg_3250_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024R
2 Bldg_3250_Floor_Basement_Room_CommCtr_Rack_0001_	FXS1732Q416
4 Bldg_3250TRAILER_Floor_01_Room_01_Rack_01_	FXS1718Q1BJ
4 Bldg_3252_Floor_0001_Room_Telco1_Rack_0001_	SPE1730008T
2 Bldg_3252_Floor_1_Room_Shop51_Rack_1	FDO1720Y2HA
4 Bldg_3255_Floor_0001_Room_0001_Rack_0001_	SPE1730008W
2 Bldg_3255_Floor_0001_Room_0001_Rack_0003_	FOC1426W0P4
Bldg_3255_Floor_0001_Room_0129_Rack_0005_	SAL1630HP53
Bldg_3255_Floor_0001_Room_0129_Rack_0005_	SAL1633KRTE
2 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FOX1332G2VD
2 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_	SAL17173LBA
2 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	SAL1633KRT4
2 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	SAL1630HP5A
2 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	SMG1143NF7H
2 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	SMG1143NF7S
2 Bldg_3255_Floor_0001_Room_SF_Rack_0010_	SAL172264PL

	2 B	ldg_3255_Floor_0002_Room_Telco1_Rack_0001_	FXS1732Q3W3
	2 B	ldg_3255_Floor_001_Room_ServerRm_Rack_163_	SPE151601B7
	2 B	ldg_3255_Floor_1_Room_106_Rack_155_	SAL1633KRTK
	2 B	ldg_3255_Floor_1_Room_106_Rack_155_	SAL1630HP58
	2 B	ldg_3255_Floor_1_Room_179_Rack_12_	SAL1633KRTF
	2 B	ldg_3255_Floor_1_Room_179_Rack_12_	SAL1633KRT6
1	2 B	ldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_	SAL1633KRTJ
1	2 B	ldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_	SAL1630HP4Q
	2 B	LDG_3255_FLR_01_RM_102_RN3_U18	FCW1951C0E6,FCW1951D0LB
De	e-Scope 4 B	ldg_3280_Floor_0001_Room_telco1_Rack_0001_	SPE173000D9
De	e-Scope 2 B	ldg_3280_Floor_0001_Room_Telco1_Rack_0001_	SPE173000EC
De	e-Scope 2 B	ldg_3280_Floor_0002_Rm_2East_Rack_0001_	FOX1338HAEJ
De	e-Scope 2 B	ldg_3280_Floor_0003_Rm_3West_Rack_0001_	FOX1338GWXD
De	-Scope 2 B	ldg_3280_Floor_0003_Rm_SF_Rack_0001_	FOX1338GZZJ
De	-Scope 2 B	ldg_3280_Floor_0003_Room_SF_Rack_0001_	FXS1735Q2EY
De	e-Scope 2 B	ldg_3280_Floor_0004_Rm_4West_Rack_0001_	FOX1338GZY8
De	e-Scope 2 B	ldg_3280_Floor_0005_Rm_5West_Rack_0001_	FOX1338GWXZ
De	e-Scope 2 B	ldg_3280_Floor_1West_Room_Telco1_Rack_0002_	FXS1733Q0SZ
De	-Scope 2 B	ldg_3280_Floor_4_Rm_4East_Rack_0001_	FOX1338G3LZ
De	e-Scope 2 B	ldg_3280_Floor_5_Rm_5East_Rack_0001_	FOX1338G3KA
De	e-Scope 4 B	ldg_3300_Floor_0001_Rm_119_Rack_0001_	SPE1728024Q
De	e-Scope 2 B	ldg_3300_Floor_0001_Rm_131_Rack_0001_	SPE173000C7
1	В	ldg_3300_Floor_0001_Room_119_Rack_0001_	SAL171635U5
1	В	ldg_3300_Floor_0001_Room_119_Rack_0003_	SAL172264NP
De	e-Scope 2 B	ldg_3300_Floor_2_Rm_208_Rack_0001_	SPE173000F1
De	-Scope 2 B	ldg_3300_Floor_2_Rm_216_Rack_0001_	FXS1732Q3ZJ
De	e-Scope 2 B	ldg_3300_Floor_2_Rm_242B_Rack_0001_	SPE1730009U
De	e-Scope 2 B	ldg_3300_Floor_3_Rm_312_Rack_0001_	FXS1732Q3DT
De	e-Scope 2 B	ldg_3300_Floor_3_Rm_322_Rack_0001_	SPE173000BY
	4 B	ldg_3313_Floor_01_Room_Teco#_Rack_1_	FDO1437V27K
	4 B	ldg_3400_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X03J
	4 B	ldg_3500_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X03R
	4 B	ldg_5001_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3D9
	4 B	ldg_5002_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024U

		4	Bldg_505_Floor_0001_Room_0002_Rack_0001_	FDO1437V11T
		4	Bldg_5170_Floor_1_Rm_Telco1_Rack_0001_	FXS1735Q2DD
		4	Bldg_5172_Floor_0001_Room_0001_Rack_0001_	FDO1643Y2R8
		4	bldg_658_Floor_1_Room_0001_Rack_0001	FDO1437X02B
		4	bldg_660_Floor_1_Room_0001_Rack_0001	FDO1437V26X
		4	Bldg_69_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V13V
		4	Bldg_7_Floor_0001_Room_0001_Rack_0001_	FDO1437X35U
		4	Bldg_711A_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1X6
		4	Bldg_711C_Floor_Telco1_Room_0001_Rack_0001_	FDO1645Y198
		2	Bldg_711C_Floor_Telco1_Room_COMM_Rack_0001_	FDO1645Y1A8
		4	Bldg_715_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X1B1
		4	Bldg_B5-9_Floor_0001_Room_0001_Rack_0001_	FDO1437X38P
		4	BLDG_GREENSPRINGS_FLR_01_RM_10_RN1_U9	FCW1951F0ND,FOC1951U0G3
		4	Bldg_QTRS C_Floor_Basement_Room_Telco1_Rack_1_	FDO1645Y190
		4	Bldg_QTRS1_Floor_BASEMENT_Room_0000_Rack_0001_	FDO1437X035
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				FOC0951Y3XY
				FOC1224Z19C
				FOC1224Z19C FHG1413R0AZ
				FHG1413R0AZ
				FHG1413R0AZ FOC1951U1LV
				FHG1413R0AZ FOC1951U1LV BP0210344659
				FHG1413R0AZ FOC1951U1LV BP0210344659 CA1710100238
				FHG1413R0AZ FOC1951U1LV BP0210344659 CA1710100238 FOC2120R35P
				FHG1413R0AZ FOC1951U1LV BP0210344659 CA1710100238 FOC2120R35P FOC2120R1DZ

		FOC2035Z1HT
		FOC2035Z1HX
		JAE203400MW
	Bldg_1999_Floor_0001_Rm_0001_Rack_0001_	FTX1012A398
	Bldg_1999_Floor_0001_Room_MDF_Rack_0001_	FTX1110A2C0
	Bldg_2008_Floor_0002_Rm_ServerRoom_Rack_001	FTX1748AJ5X
	Bldg_2046_Floor_0001_Rm_Telco1_Rack_0001_	FTX1642856Q
	Bldg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201NJ
	Bldg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201N9
	Bldg_2100A_Floor_0001_Room_0001_Rack_0001_	FTX1642854U
	Bldg_24101_Floor_0001_Room_Telco1_Rack_0001_	FTX1642855Z
	Bldg_24162_Floor_1_Room_Telco1_Rack_1_	FTX1642856M
	Bldg_24203_Floor_0001_Room_Telco1_Rack_0001_	FTX1012A38X
	Bldg_24204_Floor_0001_Room_105_Rack_0006_	FTX1012A38Z
	Bldg_27005_Floor_0001_Room_Telco1_Rack_0001_	FTX1642856J
1	Bldg_27028_Floor_1_Room_Telco1_Rack_1_	FOC1722Z2G4
	Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FTX1644AKYW
	Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FOC16403G1P
	Bldg_27219_Floor_2_Room_219_Rack_1_	FTX1642854Y
	Bldg_27263_Floor_0001_Room_0001_Rack_0001_	FTX1652A00M
	Bldg_27263_Floor_0001_Room_Telco1_Rack_001_	FOC16507USN
	BLDG_27410_FLR_01_RM_182_RN2_U30	FTX1644AKXN
1	Bldg_3084A_Floor_1_Room_Telco_Rack_1_	FOC1512V375
1	Bldg_3085B_Floor_1_Room_Telco1_Rack_1_	FOC1722Z2G0
	Bldg_3255_Floor_0001_Room_179_Rack_0002_	FDO1239Z0XQ
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0002_	SPE1447006J
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1229GJFK
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1045051Z
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FGE21252B1A
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FGE21252B1W
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FDO1236Y09Q
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FOX10450523
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0016_	JAE1943032Y
	Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1244GDUX

Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1224GFZ4
Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	SAL1630HP4W
Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0112_	SAL13516P34
BLDG_3255_RM_179_ROW_4_RACK_1	FOX1938G7PZ
Building 3255, Room 179, Row 4, Rack 1, RU1	FTX1644AK5S
	FCW1949F0Z4,FCW1949C17X
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MCEN-ES	FHG1413R0BJ

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NCR QUAN Nodes	NCR	QUAN
NCR QUAN Nodes	NCR	QUAN
MCEN INS QUAN Nodes	MCEN	INS
Test_Partition_Realm_Change	#VALUE!	#VALUE!
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MCEN INS Legacy Nodes	MCEN	INS
MCEN INS Legacy Nodes	MCEN	INS

		OLT Q	UAN-U03-OL-01
BLDG 3	ONT	COUNT	ONT SW
	709GP	1	ONT709GP.3.21.3
72	1400	1	ONT140 1 7 24
1775	140C	1	ONT140.1.7.34
	728GP	3	ONT728GP.3.20.7
1999			
2044	140C	1	ONT140.1.7.34
2044	728GP	54	ONT728GP.3.20.7
2076	72001	31	514172551.5.26.7
	709GP	1	ONT709GP.3.21.3
2118	1.100		
2200	140C	1	ONT140.1.7.34
2200	729GP	2	ONT729GP.3.20.7;ONT729_V005591
2202			· _
	709GP	1	ONT709GP.3.21.3
2203	709GP	2	ONT709GP.3.21.3
2204	709GP		ON1709GP.3.21.3
	709GP	1	ONT709GP.3.21.3
2207			
2200	709GP	1	ONT709GP.3.21.3
2208	709GP	1	ONT709GP.3.21.3
2209	7030.		0111703011012210
	709GP	1	ONT709GP.3.21.3
2210	700.60	-	ONT 700 CD 2 24 2
2247	709GP	1	ONT709GP.3.21.3
	709GP	1	ONT709GP.3.21.3
2248			
22.50	709GP	1	ONT709GP.3.21.3
2249	709GP	1	ONT709GP.3.21.3
2301	,0501		
	728GP	1	ONT728GP.3.20.7
3077			
3086	728GP	1	ONT728GP.3.20.7
3080	709GP	1	ONT709GP.3.21.3
3230	33 3.		
	709GP	1	ONT709GP.3.21.3

		OLT QI
BLDG	ONT	COUNT
1999		
	729GP	1
24005		
	729GP	1
24006		
	729GP	1
24008		
	729GP	2
24009	1 = 0 0 1	
	729GP	3
24015	72301	
24013	729GP	1
24017	72307	
2-017	720CD	2
24018	729GP	
24018	72000	4
244.42	729GP	1
24142		
	729GP	1
24144		
	729GP	1
24157		
	729GP	1
24164		
	729GP	4
24180		
	729GP	1
24191		
	729GP	1
24193		
	729GP	3
24194		
	729GP	1
24195		
	729GP	1
24196		
	729GP	1
24197		
	729GP	1
24198		
	729GP	1
24199		
	729GP	1
24200		
	729GP	1
I	•	

3232			
	709GP	1	ONT709GP.3.21.3
3240			
	140C	1	ONT140.1.7.34
3259			
	709GP	1	ONT709GP.3.21.3
3399			
	709GP	1	ONT709GP.3.21.3
24204	700.00	1	ONIT 700 CD 2 24 2
27202	709GP	1	ONT709GP.3.21.3
27282	700CD	1	ONT700CD 2 24 2
28000	709GP	1	ONT709GP.3.21.3
28000	709GP	1	ONT709GP.3.21.3
28009	70301		01170301.3.21.3
20003	709GP	1	ONT709GP.3.21.3
1//2	70301	-	0111703 01101210
,,,	709GP	1	ONT709GP.3.21.3
<b>2189</b> A			
	709GP	1	ONT709GP.3.21.3
2201A			
	709GP	1	ONT709GP.3.21.3
2203A			
	709GP	1	ONT709GP.3.21.3
3230T			
	709GP	1	ONT709GP.3.21.3
TOTAL		92	
TOTAL		28	
TOTAL		64	

24204		
	729GP	1
27130		
	729GP	3
27282		
	729GP	1
27130C		
	729GP	2
TOTAL		38
TOTAL		31
TOTAL		7

140C
140W
709GP
728GP
729GP

De-Scope

De-Scope

146

584

Total 24 port switches Needed
Total SFP's

JAN-U07-OL-01
ONT SW
ONT729GP.3.20.7;ONT729_V005591
ONITZOCO O OD Z ONITZOC MOOFFOA
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ON1723G1.3.20.7,ON1723_V003331
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
_
ONT729GP.3.20.7;ONT729_V005591
ONT720CD 2 20 7 ONT720 MO05504
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ON1729GF.3.20.7,ON1729_V003391
ONT729GP.3.20.7;ONT729_V005591
ON1723G1.3.26.7,ON1723_V003331
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
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ONT729GP.3.20.7;ONT729_V005591
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ONT729GP.3.20.7;ONT729_V005591

		OLT Q
BLDG	Ī	COUNT
69	Oiti	000
	729GP	1
122	72301	_
122	729GP	1
1304	72301	
1004	729GP	1
1775	7 2 3 3	
	729GP	5
1999		
	140C	1
	140W	4
	729GP	3
2033		
	729GP	1
2044		
	729GP	17
2076		
	709GP	1
2117		
	709GP	1
2187		
	729GP	1
2200		
	709GP	1
2301		
	729GP	34
3065		
2072	729GP	1
3070	72005	
2100	729GP	4
3186	720CD	1
3202	729GP	1
3202	729GP	1
3228	72907	1
JEEU	709GP	1
3229	70301	1
	728GP	1
	729GP	1
3230		
	729GP	1
3240		
	729GP	1
3255		

ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591

	709GP	1
	729GP	2
3259		
	709GP	3
3280		
	729GP	1
3300		
	709GP	1
3311		
	729GP	2
3312		
	729GP	1
3313		
	729GP	1
3314		
	729GP	2
5001		
	729GP	2
5002	70000	
	729GP	2
5003	720.00	1
24004	729GP	1
2189A	70000	4
2400N	709GP	1
<b>2189N</b>	720CD	2
3083A	729GP	
3065A	729GP	1
	/23GP	1
TOTAL		107
TOTAL		40
TOTAL		67
IOIAL		07

<sup>\*\*</sup> Red-Highlighed items already have MCEN-N presense within those bui

<sup>\*\*</sup> All other legacy ONT devices will be replaced with C9300L-24P-4X-A s

JAN-U08-OL-01
ONT SW
CAITTOO CD 2 20 7 CANTTOO MOOFFOA
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
ONT140.1.7.34
ONT140.1.7.34
ONT729GP.3.20.7;ONT729_V005591
ONT729GP.3.20.7;ONT729_V005591
01172301.3.20.7,011723_103332
ONT729GP.3.20.7;ONT729_V005591
ON172301.3.20.7,GN1723_V003331
ONT709GP.3.21.3
0117,000.1012.10
ONT709GP.3.21.3
ONT729GP.3.20.7;ONT729_V005591
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ONT709GP.3.21.3
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ONT729GP.3.20.7;ONT729_V005591
ONT709GP.3.21.3
ONT728GP.3.20.7
ONT729GP.3.20.7;ONT729_V005591
01172301.3.23.7,011723_103332
ONT729GP.3.20.7;ONT729_V005591
01172501.5.20.7,611725_1005551
ONT720CD 2 20 7:ONT720 V/005501
ONT729GP.3.20.7;ONT729_V005591

1		
		OLT QU
BLDG	ONT	COUNT
1999		
	729GP	1
26100		
	709GP	1
26164		
	729GP	1
26183		
	709GP	1
27170		
	729GP	1
27277		
	729GP	6
27278		
	729GP	2
27277A		
	709GP	1
27290TX		
	729GP	2
TOTAL		16
TOTAL		8
TOTAL		8

ONT709GP.3.21.3
ONT729GP.3.20.7;ONT729_V005591
ONT709GP.3.21.3
ONT729GP.3.20.7;ONT729_V005591
ONT709GP.3.21.3
ONT729GP.3.20.7;ONT729_V005591
ONTTOO OD 2 24 2
ONT709GP.3.21.3
ONIT 2000 2 20 7 ONIT 200 V005 504
ONT729GP.3.20.7;ONT729_V005591
ONT720CD 2 20 7:ONT720 V005504
ONT729GP.3.20.7;ONT729_V005591

Iding arleady and are deemed out-of-scope until VSS. witches

## AN-U09-OL-01 ONT SW ONT729GP.3.20.7;ONT729\_V005591 ONT709GP.3.21.3 ONT729GP.3.20.7;ONT729\_V005591 ONT729GP.3.20.7;ONT729\_V005591 ONT729GP.3.20.7;ONT729\_V005591 ONT729GP.3.20.7;ONT729\_V005591 ONT729GP.3.20.7;ONT729\_V005591 ONT729GP.3.21.3

<b>Host Name</b>	site	<b>Device Type</b>	<b>Device Vendor</b>	Device Model	C9300L-24	
INHZ-U00-IR-01	INHZ	Router	Cisco	CISCO2911/K9		
INHZ-U00-IR-04	INHZ	L3Switch	Cisco	WS-C3750G-12S-E		
INHZ-U00-IS-01	INHZ	Router	Cisco	SM-ES2-24		
INHZ-U00-OS-03	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		
INHZ-U01-AS-01	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1
INHZ-U01-AS-02	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-S		
INHZ-U01-AS-03	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-E		
INHZ-U01-AS-04	INHZ	L3Switch	Cisco	WS-C4506-E		
INHZ-U01-AS-05	INHZ	L3Switch	Cisco	WS-C4506-E		
INHZ-U01-AS-06	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1
INHZ-U01-AS-07	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1
INHZ-U01-AS-08	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1
INHZ-U01-DS-01	INHZ	L3Switch	Cisco	WS-C3750G-12S-S		
				Total		4

C9300L-48	C9300-48P-A	C9500-48Y4C-A	SFP-10G-LR++=	
				4
	1			4
	1			4
		3		4
		3		:
				4
				4
				4
			2	
	2	6	2	30

Device Location	Serial Number	Partition
Naval Surface Warfare Center Indian Head MD Bldg 290	FTX1644AL07	MCEN INS QUAN Nodes
Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X2G5	MCEN INS QUAN Nodes
Naval Surface Warfare Center Indian Head MD Bldg 290	FOC16403FPC	MCEN INS QUAN Nodes
Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X1Z8	MCEN INS QUAN Nodes
Bldg_521_Floor_1_Rm_Warehouse_Rack_1	FDO1436X243	NCR QUAN Nodes
Bldg_700_Floor_1_Room_RouterRm_Rack_1_	FDO1623X01R	NCR QUAN Nodes
Bldg_2083_Floor_1_Room_storagecloset_Rack_1_	FDO1529X1YG	NCR QUAN Nodes
Bldg_901_Floor_1_Room_112_Rack_1_	SPE173000BG	NCR QUAN Nodes
Bldg_901_Floor_1_Room_Mail_Rack_1_	SPE173000CR	NCR QUAN Nodes
Bldg_290_Floor_1_Rm_MSF_Rack_AccessCab2	FDO1436X2S3	NCR QUAN Nodes
Bldg_D61_Floor_1_Room_Boiler_Rack_1_	FDO1645Y140	NCR QUAN Nodes
Bldg_870_Floor_1_Room_1_Rack_Wallrack_	FDO1437X03Q	NCR QUAN Nodes
Bldg_290_Floor_1_Room_MSF_Rack_8_	FDO1402Y2EK	NCR QUAN Nodes

company	mitsc
MCEN	INS
NCR	QUAN

<b>Host Name</b>	site	<b>Device Type</b>	<b>Device Vendor</b>	Device Model	24 Port
PKWY-U00-IR-01	PKWY	L3Switch	Cisco	WS-C6503-E	
PKWY-U00-IR-02	PKWY	L3Switch	Cisco	WS-C6503-E	
PKWY-U00-IS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S	
PKWY-U00-IS-04	PKWY	L3Switch	Cisco	WS-C3560V2-24TS-S	
PKWY-U00-OR-01	PKWY	L3Switch	Cisco	WS-C6503-E	
PKWY-U00-OR-02	PKWY	L3Switch	Cisco	WS-C6503-E	
PKWY-U00-OS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S	
PKWY-U01-AS-01	PKWY	L3Switch	Cisco	WS-C4506-E	
PKWY-U01-AS-02	PKWY	L3Switch	Cisco	WS-C4506-E	
PKWY-U01-AS-03	PKWY	L3Switch	Cisco	WS-C4506-E	
PKWY-U01-AS-04	PKWY	L3Switch	Cisco	WS-C4506-E	
PKWY-U01-AS-05	PKWY	L3Switch	Cisco	WS-C4506-E	

Total

48 Port	C9300-48P-A 3X	SFP-10G-LR++=
	,	1
	Ş	
	3	
	3	3 2
	3	3 2
	3	3 2
	15	5 12

Device Location	Serial Number	Partition
MCSC Tech Parkway Stafford VA	FOX1423GAQ3	MCEN INS QUAN Nodes
MCSC Tech Parkway Stafford VA	FOX1423GAQ2	MCEN INS QUAN Nodes
MCSC Tech Parkway Stafford VA	FDO1403X0CU	MCEN INS QUAN Nodes
MCSC Tech Parkway Stafford VA	FDO1437X3GW	MCEN INS QUAN Nodes
MCSC Tech Parkway Stafford VA	FOX1612GSN4	MCEN INS QUAN Nodes
MCSC Tech Parkway Stafford VA	FOX1612GSNH	MCEN INS QUAN Nodes
Bldg_PKWY_Floor_0001_Room_Telco1_Rack_0001	FDO1403X0CP	MCEN INS QUAN Nodes
Bldg_105_Floor_0001_Room_0004_Rack_0001_	FOX1415G443	NCR QUAN Nodes
Bldg_105_Floor_0001_Room_0004_Rack_0001_	SPE152500N1	NCR QUAN Nodes
Bldg_105_Floor_2_Room_PG10_Rack_5_	FOX1429G267	NCR QUAN Nodes
Bldg_105_Floor_2_Room_MRAP_Rack_4_	FOX1405G60H	NCR QUAN Nodes
Bldg_105TechPKY_Floor_GCSS_Room_Telco1_Rack_0003_	FOX1428H2JX	NCR QUAN Nodes

	!
company	mitsc
MCEN	INS
MCEN	INS
MCEN	INS
MCEN	INS
MCEN	INS
MCEN	INS
MCEN	INS
NCR	QUAN

Host Name site	te I	Device Type	<b>Device Vendor</b>	<b>Device Model</b>	C9300L-24	C9300L-48
SCPA-U00-IR-01 SCI	CPA F	Router	Cisco	3845		
SCPA-U00-OR-01 SCF	CPA F	Router	Cisco	3845		
SCPA-U01-AS-01 SCI	PA I	L3Switch	Cisco	WS-C4506-E		

C9300-48P-A 3X	SFP-10G-LR++=	Device Location
		MCSC Barrett Heights Stafford VA Bldg 51
		MCSC Barrett Heights Stafford VA Bldg 51
3	4	Bldg_51BH_Floor_0002_Room_Telco1_Rack_0001_
3	4	

Serial Number	Asset Tag	Partition	count company	mitsc
FTX1437AJGC,FOC12085P69		MCEN INS QUAN Nodes	5 MCEN	INS
FTX1437AJGF,FOC12085P6A		MCEN INS QUAN Nodes	5 MCEN	INS
SPE17280251		NCR QUAN Nodes	4 NCR	QUAN

<b>Host Name</b>	site	Device Type	<b>Device Vendor</b>	Device Model	C9300L-24
BAND-U00-IR-01	BAND	Router	Cisco	CISCO2911/K9	
BAND-U00-IS-01	BAND	Router	Cisco	SM-ES2-24	
BAND-U00-OR-01	BAND	Router	Cisco	ASR1002-X	
BAND-U01-AS-01	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	
BAND-U01-AS-02	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
BAND-U01-AS-03	BAND	L3Switch	Cisco	WS-C3560V2-48TS-S	
BAND-U01-AS-05	BAND	L3Switch	Cisco	WS-C3560X-48T-S	
BAND-U01-AS-06	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
BAND-U01-DS-01	BAND	L3Switch	Cisco	WS-C3750G-12S-S	

<sup>\*\*</sup> Row 10 (WS-3750G-12S-S) can be taken out of scope since all access switche

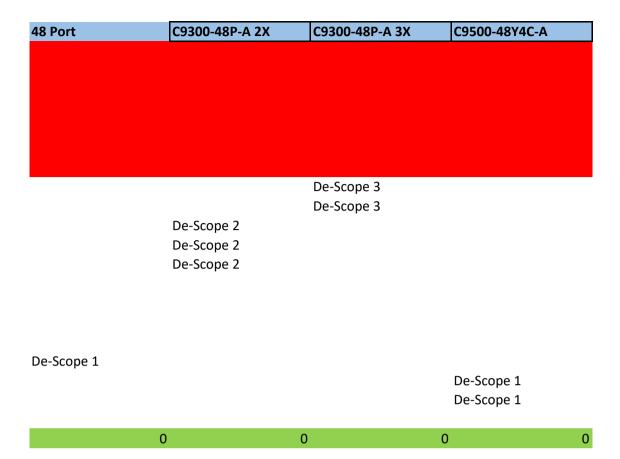
C9300L-48	C9300-48P-A	SFP-10G-LR++=	
	De-Scope 1	De-Scope 4	
	Бе эсоре 1	De-Scope 2	
De-Scope 1		De-Scope 2	
De-Scope 1		De-Scope 2	
		De-Scope 2	
	0	0	0

s will connect to row 5 (C9300-48P-A).

Device Location	Serial Number
Bldg_1_Floor_Basement_Room_Basement_Telco_Rack_1_	FTX1644AKUW
Bldg_1_Floor_Basement_Room_BasementTelco_Rack_1_	FOC16418358
Bldg_1_Floor_Basement_Room_Telco Rm_Rack_1_	FOX1829G0ZX
Bldg_1_Floor_Basement_Room_TelcoRm_Rack_1_	FDO1437V253
Bldg_1_Floor_1_Room_Lan RM_Rack_1_	FDO1621X11M
Bldg_1_Floor_2_Room_WireCloset_Rack_1_	FDO1623X01P
Bldg_1_Floor_2_Room_Telco Rm_Rack_1_	FDO1913P09U
Bldg_1_floor_Garage_Room_StorageRm_Rack_1_	FDO1437V25B
Bldg_1_Floor_Basement_Room_TelcoRM_Rack_1_	FDO1408X10T

Partition	company	mitsc
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
HQMC QUAN Nodes	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
HQMC QUAN Nodes	HQMC	QUAN
HQMC QUAN Nodes	HQMC	QUAN

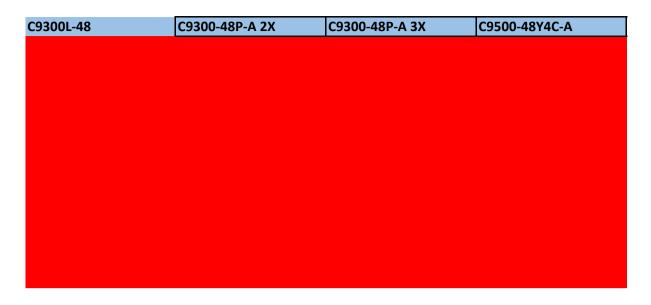
<b>Host Name</b>	site	<b>Device Type</b>	<b>Device Vendor</b>	Device Model	24 Port
BRRK-U00-IR-01	BRRK	Router	Cisco	CISCO2921/K9	
BRRK-U00-IR-02	BRRK	Router	Cisco	CISCO2911/K9	
BRRK-U00-IS-01	BRRK	Router	Cisco	SM-ES2-24	
BRRK-U00-IS-02	BRRK	Router	Cisco	SM-ES2-24	
BRRK-U00-IS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	
BRRK-U00-OR-01	BRRK	Router	Cisco	ASR1002-X	
BRRK-U00-OS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	
BRRK-U01-AS-01	BRRK	L3Switch	Cisco	WS-C4506-E	
BRRK-U01-AS-02	BRRK	L3Switch	Cisco	WS-C4506-E	
BRRK-U01-AS-03	BRRK	L3Switch	Cisco	WS-C4503-E	
BRRK-U01-AS-04	BRRK	L3Switch	Cisco	WS-C4503-E	
BRRK-U01-AS-05	BRRK	L3Switch	Cisco	WS-C4503-E	
BRRK-U01-AS-06	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
BRRK-U01-AS-07	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
BRRK-U01-AS-08	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
BRRK-U01-AS-09	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
BRRK-U01-AS-10	BRRK	L3Switch	Cisco	WS-C3560V2-48TS-S	
BRRK-U01-DS-01	BRRK	L3Switch	Cisco	WS-C3750G-12S-S	
BRRK-U01-DS-02	BRRK	L3Switch	Cisco	WS-C3750G-12S-S	



SFP-10G-LR++=	Device Location	Serial Number
	Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AJKD
	Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AKRR
	Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC16403FY5
	Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC1641834K
	Bldg_700_Floor_2_Room_Server_Rack_2_	FDO1436X1ZL
	Bldg_700_Floor_2_Room_Server_Rack_3_	FOX1830GSKX
	Bldg_700_Floor_2_Room_Server_Rack_3_	FDO1436X265
De-Scope 4	Bldg_700_Floor_1_Room_S1_Rack_1_	SPE173400CX
De-Scope 2	Bldg_700_Floor_2_Room_mfd_Rack_1_	SPE173000ET
De-Scope 4	Bldg_9_Floor_Basement_Room_LAN Room_Rack_1_	FXS1733Q0TH
De-Scope 4	Bldg_20_Floor_Garage_Room_LanRoom_Rack_1_	FXS1735Q2F2
De-Scope 4	Bldg_21_Floor_1_Room_1_Rack_1_	FXS1733Q0YY
De-Scope 4	Bldg_QTRS1_Floor_Basement_Room_Comm_Rack_1_	FDO1436X2SJ
De-Scope 4	Bldg_QTRS2_Floor_Basement_Room_Comm_Rack_1_	FDO1436X26H
De-Scope 4	Bldg_QTRS3_Floor_Basement_Room_Comm_Rack_1_	FDO1436X1SK
De-Scope 4	Bldg_QTRS4_Floor_Basement_Room_Comm_Rack_1_	FDO1436X3J4
De-Scope 4	Bldg_CMC_Floor_Basement_Room_CommRm_Rack_1_	FDO1630X009
	Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CK
	Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CS

Partition	company	mitsc
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
HQMC QUAN Nodes	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN

<b>Host Name</b>	site	<b>Device Type</b>	<b>Device Vendor</b>	Device Model	C9300L-24
WNYZ-L00-CB-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	
WNYZ-L00-CB-02	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	
WNYZ-L00-CB-03	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-S1U	
WNYZ-L00-IR-01	WNYZ	Router	Cisco	ASR1002-X	
WNYZ-L00-IS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	
WNYZ-L00-OR-01	WNYZ	Router	Cisco	ASR1006	
WNYZ-L00-OS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	
WNYZ-U00-IR-01	WNYZ	Router	Cisco	CISCO2911/K9	
WNYZ-U00-IR-02	WNYZ	Router	Cisco	CISCO2911/K9	
WNYZ-U00-IR-04	WNYZ	L3Switch	Cisco	WS-C3750G-12S-E	
WNYZ-U00-IS-01	WNYZ	Router	Cisco	SM-ES2-24	
WNYZ-U00-IS-02	WNYZ	Router	Cisco	SM-ES2-24	
WNYZ-U00-OS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	
WNYZ-U01-AS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
WNYZ-U01-AS-04	WNYZ	L3Switch	Cisco	WS-C4506-E	
WNYZ-U01-AS-05	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
WNYZ-U01-AS-06	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	De-Scope 1
WNYZ-U01-AS-07	WNYZ	L3Switch	Cisco	WS-C4503-E	
WNYZ-U01-AS-08	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1
WNYZ-U01-DS-01	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S	
WNYZ-U01-DS-02	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S	



De-Scope 3

De-Scope 2

De-Scope 1 De-Scope 1

0 0

SFP-10G-LR++=	Device Location	Serial Number
		FOC1110Z342
		FOC0935U0UT
		FOC1030Y47D
		FOX1830GSKY
	MCEN-ES	FOC1110Z20E
		FXS1817Q2D3
	MCEN-ES	FOC1110Y2BD
	Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FTX1644AKZ6
	Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FTX1644AL58
	Bldg_220_Floor_2_Room_220_Rack_1_	FDO1436X2HF
	Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FOC17440MJX
	Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FOC17440MG6
	Bldg_196_Floor_2_Room_ServerFarm_Rack_2/RowA_	FDO1529X1J2
De-Scope 4	Bldg_196_Floor_3_Room_302_Rack_1_	FDO1645Y12P
De-Scope 4	Bldg_220_Floor_2_Room_220_Rack_1_	FOX1346GVRV
De-Scope 4	Bldg_211_Floor_1_Room_Telco	FDO1542X352
De-Scope 4	Bldg_196_Floor_2_Room_243_Rack_16_	FOC1209Z4UT
De-Scope 4	Bldg_169_Floor_1_Room_Storage_Rack_1_	FXS1735Q2E7
De-Scope 4	Bldg_Qtrs V_Floor_2_Room_upstair_Rack_1_	FDO1645Y135
	Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2EB
	Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2FX

Partition	company	mitsc
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
MCEN INS QUAN Nodes	MCEN	INS
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN
<b>HQMC QUAN Nodes</b>	HQMC	QUAN

Host Name	site	<b>Device Type</b>	<b>Device Vendor</b>	Device Model	C9300L-24	
ANNZ-U00-IR-01	ANNZ	Router	Cisco	CISCO3925-CHASSIS		
ANNZ-U00-IS-01	ANNZ	Router	Cisco	SM-ES2-24		
ANNZ-U00-OS-03	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S		
ANNZ-U01-AS-02	ANNZ	L3Switch	Cisco	WS-C4506-E		
ANNZ-U01-AS-03	ANNZ	L3Switch	Cisco	WS-C3560-48TS-S		
ANNZ-U01-AS-04	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1
ANNZ-U01-AS-05	ANNZ	L3Switch	Cisco	WS-C3750G-24TS-S		1
ANNZ-U01-AS-99	ANNZ	Router	Cisco	C891F-K9		
ANNZ-U01-BI-01	ANNZ	Router	Cisco	CISCO2921/K9		
ANNZ-U01-DH-01	ANNZ	Router	Cisco	2813	L	
ANNZ-U01-DP-02	ANNZ	Router	Cisco	CISCO2911/K9		
ANNZ-U01-ES-02	ANNZ	Router	Cisco	SM-ES2-24		

C9300L-48	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=
	3		4
1			2
			2
			2
1	3		0 10

<b>Device Location</b>	Serial Number	Partition	company
Bldg_72_Floor_1_Room_140_Rack_1_	FTX1644AHV3	MCEN INS QUAN Nodes	MCEN
Bldg_72_Floor_1_Room_140_Rack_1_	FOC16403FQA	MCEN INS QUAN Nodes	MCEN
Bldg_72_Floor_1_Room_143_Rack_1_	FDO1436X26E	MCEN INS QUAN Nodes	MCEN
Bldg_351_Floor_1_Room_Admin_Rack_1_	FXS1732Q0DX	<b>HQMC QUAN Nodes</b>	HQMC
Bldg_351_Floor_2_Room_1_Rack_1_	FDO1431Z0YP	<b>HQMC QUAN Nodes</b>	HQMC
Bldg_352B_Floor_1_Room_1_Rack_1_	FDO1632X2QY	<b>HQMC QUAN Nodes</b>	HQMC
Bldg_352A_Floor_1_Room_1_Rack_1_	CAT1050RGD2	HQMC QUAN Nodes	HQMC
Bldg_351_Floor_1_Room_120_Rack_FSRDesk	FJC2034L1RJ	MARFORRES CLJN Nodes	MARFORRES
VERIZON-CIRCUIT-ID (BCBKSDH60001) T-1	FTX1424AHN8	MARFORRES CLJN Nodes	MARFORRES
Bldg_351_Floor_1_Room_109_Rack_1_	FTX1436A0XC	HQMC QUAN Nodes	HQMC
Bldg_400A_Floor_1_Room_1_Rack_1_	FTX1644AKYX	HQMC QUAN Nodes	HQMC
Bldg_400A_Floor_1_Room_1_Rack_1_	FOC1614709K	HQMC QUAN Nodes	HQMC

mitsc

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CLJN

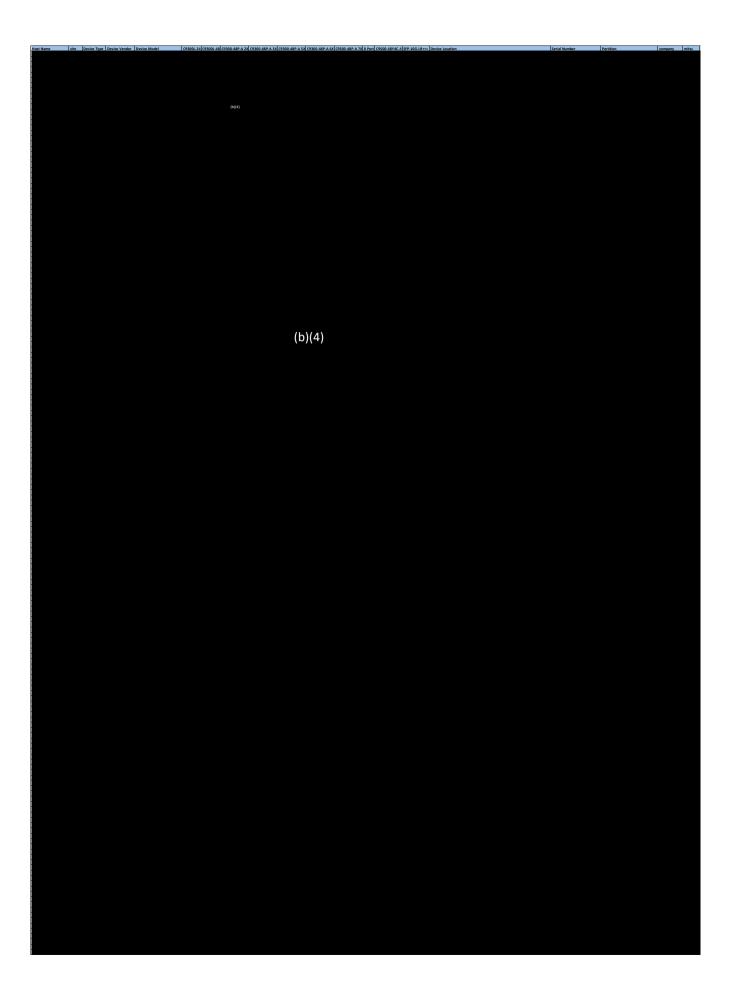
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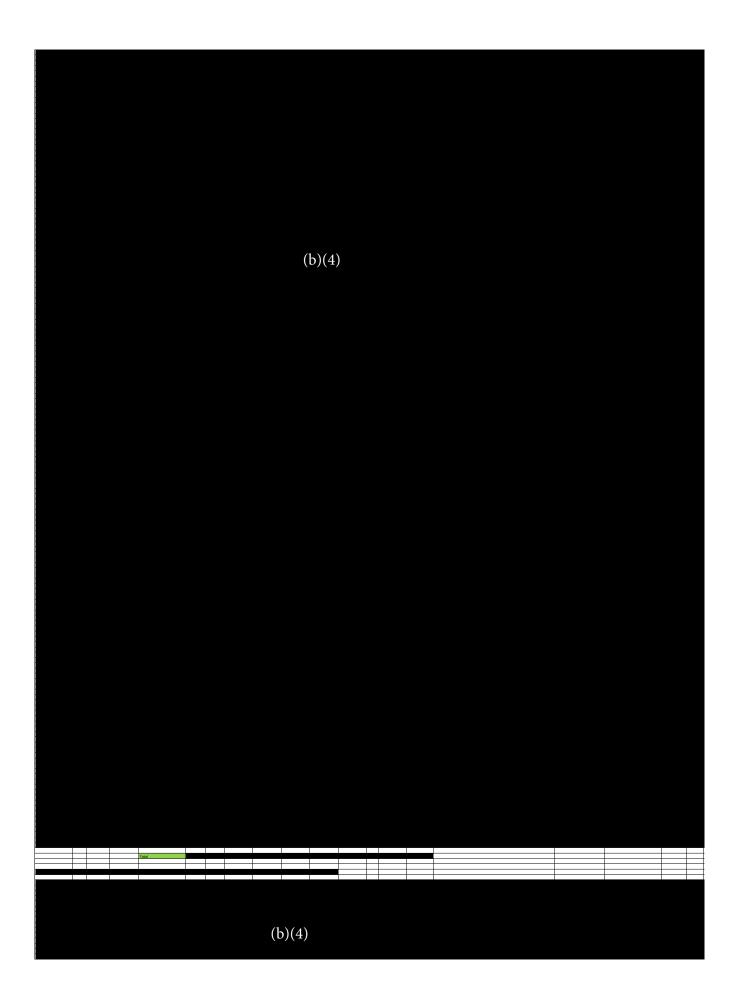
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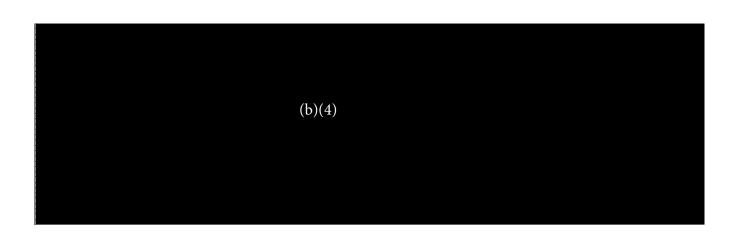
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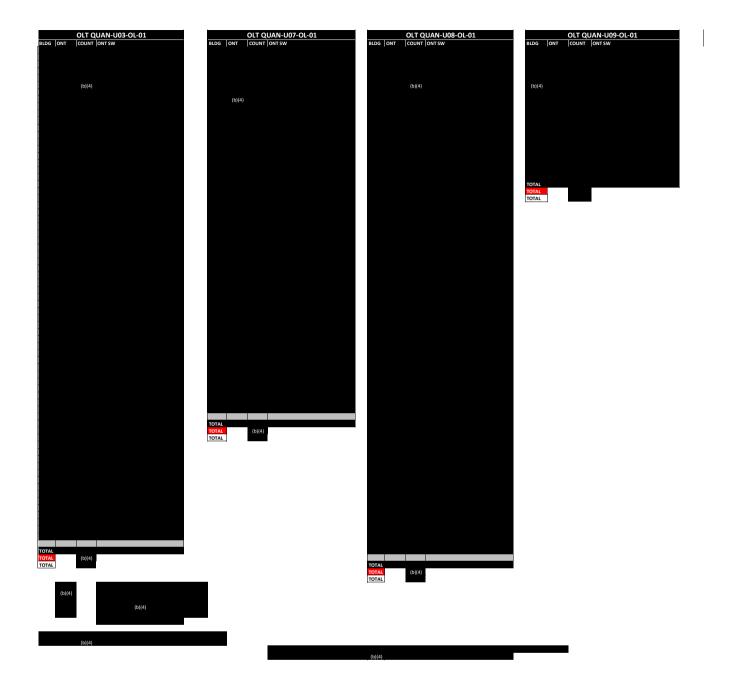
QUAN

N 2	Site	C9300L-24P-4X-A	C9300L-48P-4X-A	C9300-48P-A 2X	C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X	C9300-48P-A 7X	4 Port Switch 8 Port Switch	C9500-48Y4C-A	SFP-10G-LR++= Total Ports per Site
2	QUAN										
77	GPON										
X (b)(4) D (x) X (z) Z (z) Z (z) 4 (b)(4) D(c)(4) D(c)(4) D(c)(4) D(c)(4) D(c)(4) D(c)(4) D(c)(5) D(c)(6) D(c)	INHZ										
D K K 72	PKWY										
X	SCPA				(b)(4)						
72 12 100-24P-0X-A 100-43P-0X-A 100-43P-0X-A 100-43P-0X-B	BAND										
27 (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(4)  (D)(5)  (D)(6)  (D)(6)  (D)(7)  (D)(8)  (D)	BRRK										
(b)(4)  (b)(4)  (b)(4)  (b)(4)  (c)(4)  (d)(4)  (d)(4)  (e)(4)  (e)(4)  (f)(4)	WNYZ										
(b)(4) 2001;24P-4K-A 2001;48P-4K-A 10-48P-A 1E UB SWitches (b)(4) 0-48P-A With No NM KKT-3-3-M	ANNZ		•				•				
(b)(4) 2001;24P-4K-A 2001;48P-4K-A 10-48P-A 1E UB SWitches (b)(4) 0-48P-A With No NM KKT-3-3-M	Total				(h)(a)						
00L-24P-4X-A 00L-48P-4X-A 00-48P-A 1EUB Switches (5)(4) 00-48P-A with NM-4X 00-48P-A with NM-X K-X-1-3-M	Total	•	•		(0)(4)		•		(b)(4)		
004.489°-AK.4  1E UEU Swinches  0.0489-A With NM-SX  0.0489-A With NM-SX  0.0489-A With NM-SX  KXT-3.3M									(5)(4)		
004.489°-AK.4  1E UEU Swinches  0.0489-A With NM-SX  0.0489-A With NM-SX  0.0489-A With NM-SX  KXT-3.3M	C9300L-24P-4X-A										
(D/48) A (D/40) A (D/	C9300L-48P-4X-A										
DO-ABP-A WITH NM-ASX DO-ABP-A WITH NM NM IX-T1-3-M	C9300-48P-A										
00-48P-A With No NM	Total EUB Switches	(b)(4)									
CK-T2-3M	C9300-48P-A With NM-8X										
	C9300-48P-A With No NM										
SPWR-150CM	STACK-T1-3M										
	CAB-SPWR-150CM										
(b)(4)				(b)(4)							
WIV.				1-/1-/							









Host Name	site I	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number Part	ition company mitsc
					(b)(4)							
										_		

Host Name	site	Device Type	Device Vendor	Device Model	24 Port	48 Port	C9300-48P-A 3X	SFP-10G-LR++=	Device Location	Serial Number	Partition	company mitsc
					(b)(4)							
							(b)(4)					
				Total			(b)(4)					

Host Name site Device Type Device Vendor Device Model C93001-24 C93001-48 C9300-48P-A 3X | SFP-10G-LR++= | Device Location | Serial Number Asset Tag Partition | count company mits

Total (b)(4) (b)(4)

Host Name site Device Type Device Wendor Device Model C9300L-24 C9300L-48 C9300-48P-A SFP-10G-1R++= Device Location Serial Number Partition company mitsc

(b)(4)

Total (b)(4)





Host Name	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
					(b)(4)									
				Total		(6)(4)				•				

## FOR MARINE CORPS BASE QUANTICO QUANTICO, VIRGINIA

3 Mar 2021



## **Prepared By:**

## UNITED STATES MARINE CORPS Marine Corps Systems Command Supporting Establishment Systems PMM170 Network and Infrastructure

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PERFORMANCE SPECIFICATION	MCB QUANTICO	Version 1 with
changes		

QUANTICO, VIRGINIA

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#### 1 GENERAL

This is a Firm-Fixed-Price (FFP) Contract, for the Network Communications Infrastructure (NCI) program office to modernize the enterprise communications infrastructure aboard Marine Corps Base (MCB) Quantico, VA.

The services included in this FFP contract will be non-personal services. The Government shall not exercise any supervision or control over the contract service providers performing the services herein. Such contract service providers shall be accountable solely to the contractor who, in turn is responsible to the Government. The Government will describe the specific performance requirements at the task and delivery order level, but all work performed will fall within the general scope described herein.

#### 1.1 DESCRIPTION OF SERVICES / INTRODUCTION

The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform modernization and sustainment services as defined in this Performance Specification except for those items specified as Government Furnished Property (GFP) and services. The contractor shall perform to the standards articulated in this contract.

#### 1.2 BACKGROUND

Traditionally, Marine Corps Systems Command (MCSC), NCI Program Office (previously known as the Base Telecommunications Infrastructure) has been responsible for the upgrade and expansion of the Marine Corps' legacy Time Division Multiplexing (TDM) voice systems, Synchronous Optical Network (SONET), and outside plant (OSP) cable infrastructure. These previous efforts were typically executed via individual FFP Contracts. Due to advancing technologies and increased requirements, the BTI mission expanded to include the complete modernization/replacement of all Low Speed Time Division Multiplexing (LSTDM) technologies. More recently, the NCI mission has expanded to include the modernization of the Distribution and Access Layer Transport infrastructure to the End-User Building (EUB). As a result, NCI is now responsible for the modernization and sustainment of the Base Area Network (BAN)/Local Area Network (LAN) and the Unified Communications (UC) at every Marine Corps Installation (MCI).

#### 1.3 OBJECTIVES

The objective of this initiative is the complete modernization of the Base Telecommunications Infrastructure (BTI) aboard MCB Quantico in accordance with (IAW) the Marine Corps Wide Area Network (WAN) Transport Implementation Plan that aligns with the normalization of the Joint Information Environment (JIE). This will be realized through the enterprise-wide deployment of homogeneous systems and subsystems in order to minimize operation demands on Installation personnel and simplify sustainment activities for the NCI Program Office. This modernization effort shall include the BAN Transport and Unified Communications aboard MCB Quantico that will support the details in Sections 5.1 and 8.2 of this PWS. The overall intent of this PWS is to establish a standardized enterprise solution with the flexibility for a System Integrator (SI) to support sustainment activities that includes technical refresh and unforeseen systems upgrades to hardware, software, and ancillary equipment.

#### 1.4 SCOPE

This PWS establishes and defines the requirements for the contractor to Engineer, Furnish, Install, Secure, Test (EFIST) and make operational a turnkey BAN Transport and Enterprise UC Voice solution for the modernization of the existing communication infrastructure at MCB Quantico – or other USMC facilities as defined by the Government – to include enterprise integration and convergence. The contractor shall also provide all ancillary equipment, labor, training, software, firmware, licenses, grounding, and interfaces associated with these systems to deliver a complete turnkey solution. The contractor shall provide all supporting documentation associated with the delivered solution.

#### 1.5 ORDERING PERIOD / PERIOD OF PERFORMANCE

The delivery for this modernization effort will be 18 months after contract award.

#### 1.6 GENERAL INFORMATION

#### 1.6.1 RECONGNIZED HOLIDAYS

The contractor is not required to perform work or services on the Federal Government holidays identified below.

New Year's Day

Martin Luther King Jr.'s Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

#### 1.6.2 HOURS OF OPERATION

The contractor shall provide services IAW Marine Corps Systems Command Order 5530.2, working hours for on-site contractors shall be within 0630-1800 local time. All work shall typically be performed within the Government-defined core hours. There may be a need for occasional work outside of normal Government-defined core hours. No overtime will be authorized.

#### 1.6.3 PLACE OF PERFORMANCE

The work to be performed under this FFP Contract will be performed at MCB Quantico in Quantico, VA.

#### 1.6.4 TYPE OF CONTRACT

The Government will award a FFP Contract issued for specific work at MCB Quantico.

#### 1.6.5 PHYSICAL SECURITY

The contractor shall be responsible for safeguarding all Government equipment, information and property provided for contractor use. At the close of each work period, Government facilities, equipment, and materials shall be secured.

#### 1.6.6 SECURITY REQUIREMENTS

The information provided to the contractor will be unclassified and/or Controlled Unclassified Information (CUI). Certain contractors will be required to perform IT-I/II duties that require favorably adjudicated Tier 5/3 Level investigations. The Defense Counterintelligence Security Agency (DCSA) will not authorize contractors to submit the necessary Tier Level investigations, solely in support of IT level designation requirements, without a valid classified requirement as specified in a DD-254. This effort does not warrant a DD-254, therefore the Government Contracting Activity Security Office (GCASO) is required to submit any required investigations in support of IT level designations. The contractor is required to provide a roster of prospective contractor employees performing IT Level II and/or IT Level I duties to the MCSC Contracting Officer's Representative (COR). This roster shall include: full names, Social Security Numbers, IT Level required, e-mail address, and phone number for each contractor requiring investigations in support of IT Level designations. The COR will verify the IT Level requirements and forward the roster to the GCASO. Contractors found to be lacking required investigations will be contacted by the GCASO.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) via encrypted e-mail to MCSC\_Security@usmc.mil or 703-432-3374/3952 if any contractor performing on this contract receives an unfavorable adjudication. The FSO must also notify the PERSEC Office, within 24 hours, of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor performing on this contract, if they have been granted an IT designation, issued a CAC and/or a MCSC Building Badge. The FSO shall notify the Government (written notice) within 24 hours of any contractor personnel added or removed from the contract that have been granted IT designations, issued a Common Access Card (CAC) and/or a MCSC Building badge/access.

#### 1.6.6.1 DEFENSE BIOMETRIC IDENTIFICATION CARD

Certain contractors may require the issuance of a Defense Biometric Identification (DBID) card in order to gain access to MCB Quantico. The Contracting Officer Representative (COR) will identify and approve only those contractor personnel performing on this contract that require a DBID card in order to perform their job function aboard the base.

#### 1.6.6.2 VENDOR SCREENING

The contractor shall return a completed Contractor Screening Form, which will be provided as Attachment (5) to the SF1449, in order to identify all contractor personnel requiring access to Installations/Detachments, base facilities, and/or handling Government assets. This form includes personal identification information for respective contractor personnel and shall be either: hand delivered to the Installation Technical Support Officer (TSO) or sent in a password protected document. If the vendor screening form is sent via e-mail, the password shall be provided and sent in a separate email. The contractor shall provide a completed form to the TSO no later than two (2) weeks prior to the start of work for processing and vetting by the Installation/Detachment Security Office. The Security Office will respond with any favorable or unfavorable screening outcomes as they are received from the Installation Provost Marshall's Office (PMO). Any personnel receiving an unfavorable outcome will not be authorized access to the Installation for the purpose of performing work related to this contract.

All required escorts shall be provided by Base, G/S-6 staff. It is the contractor's responsibility to secure any facility upon exiting the facility for which they are provided a key and unescorted access. The Base, G/S-6 will exercise security supervision over all contractor personnel working on this project and will provide security support to the contractor. The contractor shall comply with all emergency rules and procedures established for this Base. All personnel aboard the Base are subject to random inspections of their vehicles, personal items, and of themselves. Consent to these inspections is considered to have been given upon entrance to the base and its facilities. Photography, videotaping, and/or audio recordings aboard the base are strictly prohibited without proper authorization by the local Base authorities.

#### 1.6.6.3 COMMON ACCESS CARD

The COR will identify and only approve those contractor employees performing on this contract that require CACs in order to perform their job function. In accordance with Headquarters, United States Marine Corps issued guidance relative to Homeland Security Presidential Directive – 12 (HSPD-12), all personnel must meet eligibility criteria to be issued a CAC. In order to meet the eligibility criteria, contractor employees requiring a CAC must obtain and maintain a favorably adjudicated Personnel Security Investigation (PSI). Prior to authorizing a CAC, the employee's Joint Personnel Adjudication System (JPAS) record must indicate a completed and favorably adjudicated PSI or (at a minimum) that a PSI has been submitted and accepted (opened). The minimum acceptable investigation is a T-1 or a National Agency Check with Written Inquiries (NACI). If a contractor employee's open investigation closes and is not favorably adjudicated, the CAC must be immediately retrieved and revoked. CACs are not issued for convenience.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) at 703-432-3490/3952 if any contractor performing on this contract receives an unfavorable adjudication after being issued a CAC. The FSO must also immediately notify the PERSEC Office of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor issued a CAC, regardless of whether a JPAS Incident Report is submitted.

Each CAC is issued with a "ctr@usmc.mil" e-mail account that the individual contractor is responsible to keep active by logging in on a regular basis (at least twice a month), sending an e-mail and clearing any unneeded e-mails. Contractors issued a CAC are prohibited from "auto- forwarding" e-mail from their .mil e-mail account to their .com e-mail account. If the "ctr@usmc.mil" e-mail account is not kept active, G-6 will deactivate the account and the CAC will also lose its functionality. Contractor employees shall solely use their government furnished "ctr@usmc.mil" e-mail accounts for work supporting the USMC, conducted in fulfillment of this contract, and shall not use a contractor supplied or personal e-mail account to conduct FOUO government business. The use of a contractor or personal e-mail account for contractor business or personal use is allowed, but only when using cellular or a commercial internet service provider.

If a contractor loses their eligibility for a CAC due to an adverse adjudicative decision, they have also lost their eligibility to perform on MCSC contracts.

#### 1.6.6.4 MARINE CORPS ENTERPRISE NETWORK COMPUTER ACCESS

Contractor personnel accessing Marine Corps Systems Command Computer systems must maintain compliance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access

Guide. Contractor personnel will submit a DD Form 2875, Systems Authorization Access Request (SAAR), and completion certificates for the CYBERC course located on MarineNet at https://www.marinenet.usmc.mil. The CYBERC course consists of the DoD Cyber Awareness Challenge and Department of the Navy Annual Privacy Training on Personally Identifiable Information (PII). Contractors will have to create a MarineNet account in order to acquire the required training.

Marine Corps Enterprise Network (MCEN) Information Technology (IT) resources if provided are designated For Official Use Only (FOUO) and other limited authorized purposes. DoD military, civilian personnel, consultants, and contractor personnel performing duties on MCEN information systems may be assigned to one of three position sensitivity designations.

- ADP-I (IT-1): Favorably adjudicated T-5, T5R, (formerly known as Single Scope Background Investigation (SSBI)/SSBI Periodic Reinvestigation (SBPR)/SSBI Phased Periodic Reinvestigation (PPR))
- 2. ADP-II (IT-2): Favorably adjudicated T-3, T3R, (formerly known as Access National Agency Check and Inquiries (ANACI)/ National Agency Check with Law and Credit (NACLC)/Secret Periodic Review (S-PR))
- 3. ADP-III (IT-3): Completed T-1, (formerly known as National Agency Check with Inquiries (NACI))

All privileged users (IT-1) must undergo a T-5 investigation regardless of the security clearance level required for the position. Privileged users must maintain the baseline Cyberspace Workforce Cybersecurity Technical (CST) or Cybersecurity Manager (CSM) relating to the position being filled. Privileged users are defined as anyone who has privileges over a standard user account as in system administrators, developers, network administrators, code signing specialist and Service Desk technicians.

All MCEN users must read, understand, and comply with policy and guidance to protect classified information and Controlled Unclassified Information (CUI), and to prevent unauthorized disclosures in accordance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access Guide and CJCSI 6510.01F.

MCEN Official E-mail Usage - MCEN IT resources are provided FOUO and other limited authorized purposes. Authorized purposes may include personal use within limitations as defined by the supervisor or the local command. Auto forwarding of e-mail from a MCEN Non-classified Internet Protocol Network MCEN-N) to commercial or private domains (e.g., Hotmail, Yahoo, Gmail, etc.) is strictly prohibited. E-mail messages requiring either message integrity or non-repudiation are digitally signed using DoD Public Key Infrastructure (PKI). All e-mail containing an attachment or embedded active content must be digitally signed.

MCEN users will follow specific guidelines to safeguard CUI, including PII and FOUO. Non-official e-mail is not authorized for and will not be used to transmit CUI to include PII and Health Insurance Portability and Accountability Act (HIPAA) information. Non-official e-mail is not authorized for official use unless under specific situations where it is the only mean for communication available to meet operational requirements. This can occur when the official MCEN provided e-mail is not available but must be approved prior to use by the Marine Corps Authorizing Official (AO).

All personnel will use DoD authorized PKI certificates to encrypt e-mail messages if they contain any of the following:

- 1. Information that is categorized as FOUO or Sensitive but Unclassified (SBU).
- 2. Any contract sensitive information that normally would not be disclosed to anyone other than the intended recipient.
- 3. Any privacy data, PII, or information that is intended for inclusion in an employee's personal file or any information that would fall under the tenets of MSGID: DOC/5 USC 552A. Personal or commercial e-mail accounts are not authorized to transmit unencrypted CUI or PII.
- 4. Any medical or health data, to include medical status or diagnosis concerning another individual.
- 5. Any operational data regarding status, readiness, location, or deployment of forces or equipment.

#### 1.6.6.5 KEY CONTROL

The contractor shall establish and implement methods of making sure all keys/key cards issued to the contractor by the Government are not lost or misplaced and are not used by unauthorized persons.

**NOTE:** All references to keys include key cards.

No keys issued to the contractor by the Government shall be duplicated. The contractor shall develop procedures covering key control that shall be included in the Quality Control Plan. Such procedures shall include turn-in of any issued keys by personnel who no longer require access to locked areas. The contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the Contracting Officer.

In the event keys, other than master keys, are lost or duplicated, the contractor shall, upon direction of the Contracting Officer, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be deducted from the next payment due the contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from the next payment due the contractor.

The contractor shall prohibit the use of Government issued keys/key cards by any persons other than the contractor's employees. The contractor shall prohibit the opening of locked areas by contractor employees to permit entrance of persons other than contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the Contracting Officer.

#### 1.6.6.6 LOCK COMBINATIONS

The contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the contractor's Quality Control Plan.

#### 1.6.7 POST AWARD CONFERENCE/PERIODIC MEETINGS

The contractor agrees to attend any post award conference convened by the contracting activity in accordance with Federal Acquisition Regulation Subpart 42.5. The Contracting Officer, Contracting Officer's Representative (COR), and other Government personnel, as appropriate, may meet periodically with the contractor to review the contractor's performance. At these meetings the Contracting Officer will apprise the contractor of how the Government views the contractor's performance and the contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the Government.

#### 1.6.8 CONTRACTING OFFICER'S REPRESENTATIVE

The COR(s) will be identified by separate letter(s) and monitors all technical aspects of the FFP Contract, task and delivery orders, and assists in contract administration. The COR(s) is authorized to perform the following functions: assure that the contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the contractor concerning technical aspects of the contract; issue written interpretations of technical requirements, including Government drawings, designs, specifications; monitor contractor's performance and notify both the Contracting Officer and contractor of any deficiencies; coordinate availability of Government Furnished Property (GFP); and provide site entry of contractor personnel. A letter of designation issued to the COR(s), a copy of which is sent to the contractor, states the responsibilities and limitations of the COR(s), especially regarding changes in price estimates or changes in delivery dates or periods of performance. The COR(s) is/are not authorized to change any of the terms and conditions of the resulting order, especially any terms that affect price, delivery schedule, or period of performance.

#### 1.6.9 KEY PERSONNEL

The contractor shall provide a Project Manager who shall be responsible for the performance of the work. The name of this person and an alternate who shall act for the contractor when the manager is absent shall be designated in writing to the Contracting Officer. The Project Manager or alternate shall have full authority to act for the contractor on all contract matters relating to daily operation of this contract.

The Project Manager or alternate shall be available between 8:00 AM to 4:30 PM, Monday thru Friday based on the time zone of the location/Installation except Federal holidays or when the Government facility is closed for administrative reasons.

Qualifications for all key personnel are listed in Table 1.

**PROJECT KEY PERSONNEL EXPERIENCE CERTIFICATIONS SEQEMENT** Certified PMP or equivalent 7 Years Project Proven leadership, management, Project Manager Implementation Management and organizational skills experience Certified PMP or equivalent 7 Years Project Proven leadership, management, Implementation On-Site Project Manager experience Management and supervisory skills Quality Control/Quality Assurance 7 Years QC/QA Proven telecommunications **BICSI Installer Certified** Implementation Manager Management quality management skills 10 Years Engineering Lead Systems Engineer (LSE) BS Science/Engineering Licensed Professional Engineer (PE) Implementation Discipline **Registered Communications** 10 Years Network/ Proven telecommunications design Network/Telecommunications Engineer Implementation Distribution Design (RCDD) Telecommunications and installation skills Certified Professional **5 Years Logistics** Proven leadership, management, Logistician Sustainment Logistician Management and organizational skills

Table 1 – Key Personnel\*

#### 1.6.10 IDENTIFICATION OF CONTRACTOR EMPLOYEES

All contract personnel attending meetings, answering Government telephones, and working in any situations where their contractor status is not obvious to third parties are required to identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials. They must also ensure that all documents or reports produced by contractors are suitably marked as contractor products or that contractor participation is appropriately disclosed. Contractors shall obtain visitor badges in accordance with MCB Quantico security policy.

# 1.6.11 CONTRACTOR TRAVEL

The contractor may be required to travel to off-site training locations and to ship training aids to these locations in support of this PWS. Contractor may be authorized travel expenses consistent with the substantive provisions of the Federal Acquisition Regulation 31.205-46 and the limitation of funds specified in each task and delivery order. All travel requires prior Government approval/authorization by the COR(s).

#### 1.6.12 ORGANIZATION CONFLICT OF INTEREST

To the extent that the work under this contract requires access to proprietary, business confidential, or financial data of other companies, and as long as these data remain proprietary or confidential, the contractor shall protect the data from unauthorized use and disclosure and agrees not to use it to compete with those other companies.

1. "Organizational Conflict of Interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. "Person" as used herein includes corporations, partnerships, joint ventures, and other business enterprises.

<sup>\*</sup> Fr the Quality Control/Quality Assurance Manager, the Contractor may swap 5 years of relevant QC/QA experience for the BICSI certification.

<sup>\*</sup> For the Logistician, the Contractor may swap 5 years of logistics experience for the Certified Professional Logistician certification

- 2. The contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in the contract, the contractor does not have any organizational conflict of interest(s) as defined in paragraph (1).
- 3. It is recognized that the effort to be performed by the contractor under this contract may create a potential organizational conflict of interest on the instant contract or on a future acquisition. In order to avoid potential conflict of interest, and at the same time to avoid prejudicing the best interest of the government, the right of the contractor to participate in future procurement of equipment and/or services that are the subject of any work under this contract shall be limited as described below in accordance with the requirements of FAR Subpart 9.5.

# 4. The contractor agrees:

- a) That it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the government any information provided to the contractor by the government during or as a result of performance of this contract. Such information includes, but is not limited to, information submitted to the government on confidential basis by other persons. Further, the prohibition against release of government provided information extends to cover such information whether or not in its original form, e.g., where the information has been included in contractor generated work or where it is discernible from materials incorporating or based upon such information. This prohibition shall not expire after a given period of time. See, DFARS 252.204-7000, Disclosure of Information, included in the contract.
- b) The contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure or any party outside the government any information generated or derived during or as a result of performance of this contract.
- c) The prohibitions contained in subparagraphs (4)(a) and (4)(b) shall apply with equal force to any affiliate of the contractor, any subcontractor, consultant, or employee of the contractor, any joint venture involving the contractor, any entity into or with which it may merge or affiliate, or any successor or assign of the contractor. The terms of paragraph (f) of the Special contractor Requirement relating to notification shall apply to any release of information in contravention of this paragraph (4).
- 5. The contractor further agrees that during the performance of this contract and for a period of three years after completion of performance of this contract, the contractor; any affiliate of the contractor; any subcontractor, consultant, or employee of the contractor; any joint venture involving the contractor; any entity into or with which it may subsequently merge or affiliate; or any other successor or assign of the contractor, shall not furnish to the Marine Corps, either as a prime contractor or as a subcontractor, or as a consultant to a prime contractor or as a subcontractor, any system, component or services which is the subject of the work to be performed under this contract. This exclusion does not apply to any re-competition for those systems, components, or services on the basis of work statements growing out of the effort performed under this contract, developed from a source other than the contractor, subcontractor affiliate, or assign of either. During the course of performance of this contract or before the three-year period following completion of this contract has lapsed, the contractor may, with the authorization of the cognizant contracting officer, participate in a subsequent procurement for the same system, component, or service. In other words, the contractor may be authorized to

- compete for procurement(s) for systems, components or services subsequent to an intervening procurement.
- 6. The contractor agrees that, if after award, it discovers an actual or potential organizational conflict of interest; it shall make immediate and full disclosure in writing to the contracting officer. The notification shall include a description of the actual or potential organizational conflict of interest, a description of the action, which the contractor has taken or proposes to take to avoid, mitigate, or neutralize the conflict, and any other relevant information that would assist the contracting officer in making a determination on this matter. Notwithstanding this notification, the government may terminate the contract for the convenience of the government if determined to be in the best interest of the government.
- 7. Notwithstanding paragraph (6) above, if the contractor was aware, or should have been aware, of an organizational conflict of interest prior to the award of this contract or becomes, or should become aware of an organizational conflict of interest after award of this contract and does not make an immediate and full disclosure in writing to the contracting officer, the government may terminate this contract for default.
- 8. If the contactor takes any action prohibited by this requirement or fails to take action required by this requirement, the government may terminate this contract by default.
- 9. The contracting officer's decision as to the existence or nonexistence of the actual or potential organization conflict of interest shall be final and is not subject to the clause of this contract entitled "DISPUTES" (FAR 52.233.1).
- 10. Nothing in this requirement is intended to prohibit or preclude the contractor from marketing or selling to the United States Government its product lines in existence on the effective date of this contract; nor, shall this requirement preclude the contractor from participating in any research and development. Additionally, sale of catalog or standard commercial items are exempt from this requirement.
- 11. The contractor shall promptly notify the contracting officer, in writing, if it has been tasked to evaluate or advise the government concerning its own products or activities or those of a competitor in order to ensure proper safeguards exist to guarantee objectivity and to protect the government's interest.
- 12. The contractor shall include this requirement in subcontracts of any tier which involve access to information or situations/conditions covered by the preceding paragraphs, substituting "subcontractor" for "contactor" where appropriate.
- 13. The rights and remedies described herein shall not be exclusive and are in addition to other rights and remedies provided by law or elsewhere included in this contract. 5.4. Proprietary Information Exchange Agreement (PIEA)/Non-Disclosure Agreements (NDA). The contractor shall arrange the signature on all PIEA/non-disclosure agreements necessary to interface with other contractors to accomplish the contract requirements in accordance with FAR 9.505-4 prior to beginning any efforts associated with this PWS. Copies of all non-disclosure agreements required for this contract shall be provided to the Contracting Officer and COR.

#### 1.6.13 SYSTEM SECURITY PLAN

- 1. System Security Plan and Plans of Action and Milestones (SSP/POAM) Reviews
- a) Within thirty (30) days of contract award, the Contractor shall make its System Security Plan(s) (SSP(s)) for its covered contractor information system(s) available for review by the Government at the contractor s facility. The SSP(s) shall implement the security requirements in Defense Federal Acquisition Regulation Supplement (DFARS) clause 252.204-7012, which is included in this contract. The Contractor shall fully cooperate in the Government s review of the SSPs at the Contractor s facility.
- b) If the Government determines that the SSP(s) does not adequately implement the requirements of DFARS clause 252.204-7012 then the Government shall notify the Contractor of each identified deficiency. The Contractor shall correct any identified deficiencies within thirty (30) days of notification by the Government. The contracting officer may provide for a correction period longer than thirty (30) days and, in such a case, may require the Contractor to submit a plan of action and milestones (POAM) for the correction of the identified deficiencies. The Contractor shall immediately notify the contracting officer of any failure or anticipated failure to meet a milestone in such a POAM.
- c) Upon the conclusion of the correction period, the Government may conduct a follow-on review of the SSP(s) at the Contractor's facilities. The Government may continue to conduct follow-on reviews until the Government determines that the Contractor has corrected all identified deficiencies in the SSP(s).
- d) The Government may, in its sole discretion, conduct subsequent reviews at the Contractor's site to verify the information in the SSP(s). The Government will conduct such reviews at least every three (3) years (measured from the date of contract award) and may conduct such reviews at any time upon thirty (30) days' notice to the Contractor.
- 2. Compliance to NIST 800-171
- a) The Contractor shall fully implement the CUI Security Requirements (Requirements) and associated Relevant Security Controls (Controls) in NIST Special Publication 800-171 (Rev. 1) (NIST SP 800-171), or establish a SSP(s) and POA&Ms that varies from NIST 800-171 only in accordance with DFARS clause 252.204-7012(b)(2), for all covered contractor information systems affecting this contract.
- b) Notwithstanding the allowance for such variation, the contractor shall identify in any SSP and POA&M their plans to implement the following, at a minimum:
- (1) Implement Control 3.5.3 (Multi-factor authentication). This means that multi-factor authentication is required for all users, privileged and unprivileged accounts that log into a network. In other words, any system that is not standalone should be required to utilize acceptable multi-factor authentication. For legacy systems and systems that cannot support this requirement, such as CNC

equipment, etc., a combination of physical and logical protections acceptable to the Government may be substituted;

- (2) Implement Control 3.1.5 (least privilege) and associated Controls, and identify practices that the contractor implements to restrict the unnecessary sharing with, or flow of, covered defense information to its subcontractors, suppliers, or vendors based on need-to-know principles;
- (3) Implement Control 3.1.12 (monitoring and control remote access sessions) Require monitoring and controlling of remote access sessions and include mechanisms to audit the sessions and methods.
- (4) Audit user privileges on at least an annual basis;
- (5) Implement:
- i. Control 3.13.11 (FIPS 140-2 validated cryptology or implementation of NSA or NIST approved algorithms (i.e. FIPS 140-2 Annex A: AES or Triple DES) or compensating controls as documented in a SSP and POAM); and,
- ii. NIST Cryptographic Algorithm Validation Program (CAVP) (see https://csrc.nist.gov/projects/cryptographic-algorithm-validation-program);
- (6) Implement Control 3.13.16 (Protect the confidentiality of CUI at rest) or provide a POAM for implementation which shall be evaluated by the Navy for risk acceptance.
- (7) Implement Control 3.1.19 (encrypt CUI on mobile devices) or provide a plan of action for implementation which can be evaluated by the Government Program Manager for risk to the program.
- 3. Cyber Incident Response:
- a) The Contractor shall, within fifteen (15) days of discovering the cyber incident (inclusive of the 72-hour reporting period), deliver all data used in performance of the contract that the Contractor determines is impacted by the incident and begin assessment of potential warfighter/program impact.
- b) Incident data shall be delivered in accordance with the Department of Defense Cyber Crimes Center (DC3) Instructions for Submitting Media available at <a href="http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...">http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...</a> In delivery of the incident data, the Contractor shall, to the extent practical, remove contractor-owned information from Government covered defense information.
- c) If the Contractor subsequently identifies any such data not previously delivered to DC3, then the Contractor shall immediately notify the contracting officer in writing and shall deliver the incident data within ten (10) days of identification. In such a case, the Contractor may request a delivery date later than ten (10) days after identification. The contracting officer will approve or disapprove the request after coordination with DC3.

# 4. Naval Criminal Investigative Service (NCIS) Outreach

The Contractor shall engage with NCIS industry outreach efforts and consider recommendations for hardening of covered contractor information systems affecting DON programs and technologies.

## 5. NCIS/Industry Monitoring

- a) In the event of a cyber incident or at any time the Government has indication of a vulnerability or potential vulnerability, the Contractor shall cooperate with the Naval Criminal Investigative Service (NCIS), which may include cooperation related to: threat indicators; pre-determined incident information derived from the Contractor's infrastructure systems; and the continuous provision of all Contractor, subcontractor or vendor logs that show network activity, including any additional logs the contractor, subcontractor or vendor agrees to initiate as a result of the cyber incident or notice of actual or potential vulnerability.
- b) If the Government determines that the collection of all logs does not adequately protect its interests, the Contractor and NCIS will work together to implement additional measures, which may include allowing the installation of an appropriate network device that is owned and maintained by NCIS, on the Contractor's information systems or information technology assets. The specific details (e.g., type of device, type of data gathered, monitoring period) regarding the installation of an NCIS network device shall be the subject of a separate agreement negotiated between NCIS and the Contractor. In the alternative, the Contractor may install network sensor capabilities or a network monitoring service, either of which must be reviewed for acceptability by NCIS. Use of this alternative approach shall also be the subject of a separate agreement negotiated between NCIS and the Contractor.
- c) In all cases, the collection or provision of data and any activities associated with this statement of work shall be in accordance with federal, state, and non-US law.

#### 2 DEFINITIONS AND ACRONYMS

#### 2.1 **DEFINITIONS**

BACKBONE TRANSPORT. The communications infrastructure, outside plant cable and electronic equipment, that provides both the physical and logical connection between communications (core and distribution) nodes.

DEFECTIVE SERVICE. A service output that does not meet the standard of performance described within the Performance Specification.

DELIVERABLE. Anything that can be physically delivered but may include non-manufactured things such as meeting minutes or reports.

KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract. Key Personnel are listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

LONG LEAD ITEMS. Long lead Items are defined as those items that take sixty (60) or more calendar days to procure/receive due to complex design, complicated manufacturing process, and/or limited production capacity.

LOCAL TIME. Time at reckoned in a particular region or time zone.

PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.

#### 2.2 ACRONYMS

Acronym	Term		
A&A	Assessment and Authorization		
AC	Alternating Current		
ACD	Automatic Call Distribution		
ACAS	Assured Compliance Assessment Solutions		
AHJ	Authority Having Jurisdiction		
ANACI	Access National Agency Check and Inquiries		
AO	Authorizing Official		
APL	Approved Product List		
AS	Assured Services		
ASR	Asset Shipping Report		
ATC	Authorization to Connect		
ATO	Authorization to Operate		
ATS	Automatic Transfer Switch		
AWG	American Wire Gauge		
B/P/C/S	Base/Post/Camps/Stations		
BAN	Base Area Network		
BET	Building Entrance Terminal		
BoL	Bill of Lading		
BOM	Bill of Materials		

Acronym	Term		
BTI	Base Telephone Infrastructure		
CAC	Common Access Card		
CAT I	Category I		
CAT II	Category II		
CAT III	Category III		
CCB	Configuration Control Board		
CEC	Continuing Education Credits		
CEDC	Component Enterprise Data Center		
CFR	Code of Federal Regulations		
CI	Configuration Item		
CLIN	Contract Line Item Number		
CM	Configuration Management		
CMDB	Configuration Management Database		
CMP	Configuration Management Plan		
CN	Core Node		
CND	Computer Network Defense		
CONOPS	Concept of Operations		
CONUS	Continental United States (excludes Alaska and Hawaii)		
COPP	Certified Output Protection Protocol		
COR	Contracting Officer Representative		
CoS	Class of Service		
COTR	Contracting Officer's Technical Representative		
COTS	Commercial-Off-the-Shelf		
CPD	Capability Production Document		
CRM	Comments Resolution Matrix		
CS	Cyber Security		
CSM	Cyber Security Manager		
CSSA	Customer Service Support Application		
CST	Cyber Security Technical		
CUI	Controlled Unclassified Information		
CWDM	Coarse Wavelength Division Multiplexing		
DBID	Defense Biometric Identification		
DC	Direct Current		
DD1149	Requisition and Invoice Shipping Document (Form DD1149)		
DD250	Department of Defense Form 250 (Receiving Report)		
DD254	Department of Defense Contract Security Requirement List		
DEA	Drug Enforcement Administration		
DFARS	Defense Federal Acquisition Regulation Supplement		
DISA	Defense Information Systems Agency		
DISN	Defense Information Systems Network		
DLA-DS	Defense Logistics Agency - Disposition Services		
DN	Distribution Node		
DoD	Department of Defense		
DoDIN	DoD Information Network		

Acronym	Term		
DoN	Department of the Navy		
DSCP	Differentiated Service Code Points		
DSX	Digital Signal Cross-Connect		
DWDM	Dense Wavelength Division Multiplexing		
E911/NG911	Enhanced 911/Next Generation 911		
EDP	Engineering Design Package		
EFIST	Engineer, Furnish, Install, Secure, Test		
EMT	Electrical Metallic Tubing		
EOL	End of Life		
EOS	End of Service		
EPO	Emergency Power Off		
ES&D	Enterprise Staging and Deployment		
ESL	Enterprise Software License		
ESOH	Environmental, Safety and Occupational Health		
ETAS	Emergency Technical Assistance Services		
EUB	End-user Building		
EULA	End User License Agreement		
EEVE	Enterprise Engineering and Verification Environment		
FAR	Federal Acquisition Regulation		
FBI	Federal Bureau of Investigation		
FFP	Firm Fixed Price		
FISMA	Federal Information Security Management Act		
FOUO	For Official Use Only		
FSE	Field Service Engineer		
FSO	Facility Security Officers		
GAT	Government Acceptance Test		
GFI	Government Furnished Information		
GFP	Government Furnished Property		
HIPAA	Health Insurance Portability and Accountability Act		
HMX-1	Marine Headquarters Squadron One		
HSPD-12	Homeland Security Presidential Directive-12		
HVAC	Heating, Ventilating, and Air Conditioning		
HW	Hardware		
I3A	Installation Information Infrastructure Architecture		
I3MP	Installation Information Infrastructure Modernization Program		
IAW	In Accordance With		
IBC	International Building Code		
INFOCON	Information Operations Conditions		
iRAPT	Invoice Receipt Acceptance and Property Transfer		
ISN	Installation Service Node		
ISP	Inside Plant		
IT	Information Technology		
ITIL	Information Technology Infrastructure Library		
IUID	Item Unique Identification		

Acronym	Term		
IVR	Interactive Voice Recognition		
GFP	Government Furnished Property		
JIE	Joint Information Environment		
JITC	Joint Interoperability Test Command		
JPAS	Joint Personnel Adjudication System		
JTR	Joint Travel Regulation		
KSA	Key Systems Attributes		
LAN	Local Area Network		
LCL	Logistic Lifecycle		
LCSP	Life-Cycle Sustainment Plan		
LOC	Letter of Clarification		
LSC	Local Session Controller		
LSTDM	Low Speed Time Division Multiplexing		
MCCAST v2	Marine Corps Certification and Accreditation Support Tool		
MCEN	Marine Corps Enterprise Network		
MCCOG	Marine Corps Cyberspace Operation Group		
MCSC	Marine Corps Systems Command		
MDF	Main Distribution Frames		
MPT	Manpower and Training		
MOS	Mean Opinion Score		
MOS	Military Occupational Specialty		
MOSA	Modular Open Systems Approach		
MSDS	Material Safety Data Sheet		
MUDG	Military Unique Deployment Guide		
NACI	National Agency Check with Written Inquiries		
NACLC	National Agency Check with Law and Credit		
NCA	National Capitol Region		
NCES	Net-Centric Enterprise Services		
NCI	Network Communications Infrastructure		
NDA	Non-disclosure Agreement		
NET	New Equipment Training		
NIPRNet	Non-classified Internet Protocol Router Network		
NIR	Non-Developmental Item Integration Review		
NLT	No Later Than		
NMCARS	Navy Marine Corps Acquisition Regulation Supplement		
NMCI	Navy and Marine Corps Intranet		
NOC	Network Operations Center		
NSN	National Stock Number		
OCI	Organizational Conflict of Interest		
OCONUS	Outside Continental United States (includes Alaska and Hawaii)		
OEM	Original Equipment Manufacturer		
O&M	Operations and Maintenance		
ON	Optical Network		
OSP	Outside Plant		

Acronym	Term		
OSPDPR	Outside Plant Design and Performance Requirements		
OTS	Optical Transport System		
PAC	Post Award Conference		
PCA	Physical Configuration Audit		
PCR	Project Close-out Review		
PDU	Power Distribution Unit		
PERSEC Office	Personnel Security Office		
PESHE	Programmatic Environment, Safety and Occupational Health,		
	and Evaluation		
PIA	Privacy Impact Assessment		
PIEA	Proprietary Information Exchange Agreement		
PII	Personally Identifiable Information		
PM	Project Manager		
PMM-172	Program Manager Marine, Customer Support and Strategic Sourcing		
PMO	Provost Marshall's Office		
PM N&I	Program Manager Network and Infrastructure		
POA&M	Plan of Actions and Milestones		
POC	Point of Contact		
PoP	Period of Performance		
PP	Protection Profiles		
PPSM	Ports, Protocol, Services, and Management		
PRS	Performance Requirements Summary		
PSI	Personnel Security Investigation		
PSR	Project Status Review		
PSS	Pre-award Site Survey		
PSTN	Public Switched Telephone Network		
PUR	Purchaser User Rights		
PUR	Product User Rights		
QA	Quality Assurance		
OAP	Quality Assurance Program		
QASP	Quality Assurance Surveillance Plan		
QC	Quality Control		
QCP	Quality Control Program		
QoS	Quality of Service		
RMA	Return Material Authorization		
RMF	Risk Management Framework		
ROADM	Reconfigurable Optical Add/Drop Multiplexers		
RTM	Requirements Traceability Matrix		
RTS	Real Time Service		
RU	Rack Units		
S-PR	Secret Periodic Review		
SAAR	System Authorization Access Request		
SAR	Safety Assessment Report		
SAT	System Acceptance Test		

Acronym	Term		
SDN	Software Defined Network		
SEP	System Engineering Plan		
SI	System Integrator		
SIP	Session Initiation Protocol		
SIPRNet	Secure Internet Protocol Router Network		
SLA	Software License Agreement		
SLIN	Sub-Line Item Number		
SON	Statement of Need		
SONET	Synchronous Optical Network		
SPPN	Special Purpose Processing Node		
SBPR	SSBI Periodic Reinvestigation		
SSBI	Single Scope Background Investigation		
SPPR	SSBI Phased Periodic Reinvestigation		
SRG	Security Requirement Guides		
SSR	Site Specific Requirements		
STIG	Security Technical Information Guide		
SURA	Software User Rights Agreement		
SW	Software		
T&E	Test and Evaluation		
TAS	Technical Assistance Services		
TCCB	Team Configuration Control Board		
TDM	Time Division Multiplexing		
TDP	Technical Data Package		
TGB	Telecommunications Grounding Busbar		
TIA	Telecommunications Industry Association		
TIM	Technical Interchange Meeting		
TMGB	Telecommunications Main Grounding Busbar		
TMS	Telephony Management Systems		
TOS	Terms of Service		
TPN	Tactical Processing Node		
TRDP	Technical Review Data Package		
TPTCTS	Test Procedures, Test Cases, Test Scripts		
TRR	Test Readiness Review		
TSO	Technical Support Officer		
TTP	Tactics, Techniques, and Procedures		
UC	Unified Communications		
UCR	Unified Capabilities Requirements		
UFC	Unified Facilities Criteria		
UID	Unique Identification		
UII	Unique Item Identifier		
UPS	Uninterrupted Power Supply		
VLAN	Virtual Local Area Network		
VLRA			
V LIXA	Valve Regulated Lead Acid		

Acronym	Term	
VRF	Virtual Routing and Forwarding	
VSS	Verification Site Survey	
WAN	Wide Area Network	
WAP	Wireless Access Point	
WAWF	Wide Area Work Flow	
WLAN	Wireless Local Area Network	
WSS	Wave Selectable Switch	
XMPP	Extensible Messaging and Presence Protocol	

# 3 GOVERNMENT FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

The Government will not be providing any Government furnished property for this contract.

#### 4 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES

#### 4.1 GENERAL

The contractor shall furnish all supplies, equipment, facilities, and services required to perform work under this contract that are not identified in Section 3 of this PWS.

Accountability for all hardware and software is the sole responsibility of the contractor until such time as the Government has performed the final acceptance. All Bills of Ladings (BoLs) and shipping documents shall be provided to the Program Office upon receipt of the shipments. The contractor shall provide the Government with an initial Bill of Materials (BOM) and Configuration Management Database (CMDB) at the Technical Interchange Meeting (TIM). The contractor shall provide a final Material and Equipment List or BOM to the Government prior to the start of Cut-Over to ensure proper and accurate property transfer. The Material and Equipment List/BOM will include, at a minimum, the following fields: name, part number, item description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

The contractor shall coordinate all shipments with the Lead Logistician aboard N&I. The contractor shall mark the equipment in accordance with MIL-STD 130 and provide the Government with a completed Asset Shipping Report (ASR) and Form DD1149 for all new equipment delivered under this contract. The DD1149 Form shall contain, at a minimum, an item description, serial number, part number, unit of issue, quantity received, unit price, and total cost. The contractor shall coordinate a turnover schedule with the gaining command and perform a serialized "item by item" inventory with the Supply Officer, or designated representative, and obtain a signature for the delivery of the equipment. As part of the equipment delivery, the contractor shall provide the final Material and Equipment List.

#### 4.2 MATERIALS EQUIPMENT

The contractor shall provide and deploy all materials and equipment required to transport, install, configure, provision, and test the systems and subsystems delivered under the task and delivery orders in accordance with established industry practices and Original Equipment Manufacturer's (OEMs) methodologies, procedures, and sustainment support activities.

#### 5 SPECIFIC TASKS

#### 5.1 ENGINEER, FURNISH, INSTALL, SECURE, TEST

The contractor shall be responsible to EFIST and make operational a Regional UC System and a Base Area Network (BAN). Each system shall be completely functional with the required programming, interfaces, hardware, software, software licenses, ancillary equipment, parts, databases, and material for all identified users, services, and requirements. The modernized systems and associated subsystems shall retain all functionality of the existing systems and provide additional functionality to meet the requirements specified in the site-specific requirements specification. To ensure compliance with all requirements, the contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all identified requirements to the Performance Requirements Summary (PRS). The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, and demonstration) to validate the contractor's proposed system design for Government acceptance. All proposed systems configurations will be baselined in accordance with PM N&I, Configuration Management Plan (CMP). The contractor shall repurpose/reutilize existing equipment to the maximum extent practical based on their solution. In addition, the contractor shall EFIST and make operational any ancillary equipment that is required to support this effort such as grounding, firmware, interfaces, patch panels, applications, and similar equipment necessary to deliver a complete and useable solution.

The contractor shall use, to the greatest extent possible, enterprise software licenses for Commercial Off-the-Shelf (COTS) software products available from the Department of the Navy (DoN) Enterprise Software License (ESL) agreements for any software required to support their proposed solution. The DoN ESL Team is aligned under Program Manager, Customer Support and Strategic Sourcing (PMM-172) as a joint Navy and Marine Corps strategic sourcing effort to consolidate, centralize, and streamline the acquisition and management of DoN ESL Agreements. Enterprise software Licenses agreements are available for the following applications: Microsoft, Oracle, Avaya, Symantec/Veritas, ActivIdentity, CISCO SMARTnet, VWware, Solarwinds, and Red Hat. The contractor will coordinate the use of available enterprise software license agreements with the NCI Program Office after contract award.

The contractor shall be responsible for replacing and correcting any hardware, software, applications, data, configurations, material, or services omitted and/or installed in contractor error without any extra expense or delay to the Government. The contractor shall not be responsible for replacing or correcting existing Government property, software, or facility problems, outside the scope of this PWS.

#### 5.1.1 REGIONAL UNIFIED COMMUNICATIONS

The Regional UC solution shall provide business voice capability to each end-user in those locations where the solution will be deployed. MCB Quantico shall include all Non-classified Internet Protocol Router Network (NIPRNet) users on MCB Quantico, users at Indian Head, MD, Tech Parkway, Quantico Corporate Center, and Barrett Heights in Stafford, VA,. The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911)

services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

#### 5.1.2 BASE AREA NETWORK

The BAN consists of a Distribution Layer and an Access Layer. It shall provide for the transportation of voice, video, and data on all locations where the solution will be deployed. There are 8 Area Distribution Nodes (ADNs) located on MCB Quantico; Bldgs. (1999, 24204, 3255, 3300, 2076, 26100, 27282, and Russell Knox). These nodes shall be connected with a Dense Wavelength Division Multiplexing (DWDM) system with a Reconfigurable Optical Add/Drop Multiplexer (ROADM) located at each node. All circuits traversing the installation shall use the DWDM. Circuits shall be transitioned off the SONET network. The BAN shall satisfy the requirements of Section 8. The BAN has no external connectivity but gets core connectivity through the Core Nodes (CNs) and the Installation Gateway.

DWDM technology will provide backbone transport connectivity at MCB Quantico. SONET will be removed.

The Contractor shall provide a second design with an "All PON" solution in accordance with section 8 and par 8.3.2.2.

#### 5.1.3 FACILITY/NODE PREPARATIONS

#### 5.1.3.1 POWER SYSTEMS

The Contractor shall not be required to include power as a feature of their solution, but will identify any necessary power requirements during the VSS in a report to the Government.

#### 5.1.3.2 AUXILIARY INFRASTRUCTURE

Auxiliary Infrastructure is comprised of the equipment and components that supplement the primary systems and subsystems provided in the proposed solution. This equipment consists primarily of equipment racks/cabinets, ladder rack, cable tray, re-enforcing structures, that house the electronic components installed as a part of the overall modernization effort at each DN. All requirements for auxiliary infrastructure will be verified during the VSS.

#### 5.2 CYBERSECURITY

The contractor, in coordination with the NCI Project Manager and NCI Cybersecurity Representative, shall perform all recommended Cybersecurity configuration settings, programming, and configurations of components being provided to ensure compliance with all cyber requirements. At a minimum, the contractor shall provide the following items for Government review: System Configuration Hardware/Software Baseline, Network/Security configurations, Ports, Protocol, Services, and Management (PPSM), system and equipment warranties, software license agreements, software upgrades, and all documentation required to support the Assessment and Authorization (A&A) and Configuration Control Board (CCB) processes. Refer to the Table 2 - Contract Deliverables Matrix for specific Cybersecurity requirements. All products must be current on the DoDIN Approved Product List (APL). The system shall be designed and implemented with hardware/software that is

compliant with and fielded in accordance with the Joint Interoperability Test Command (JITC) approved configuration and Military Unique Deployment Guide (MUDG).

#### 5.2.1 JOINT INTEROPERABILITY TEST COMMAND CERTIFICATION

All proposed UC system hardware and software shall have received JITC certification in accordance with the latest version of the DoDI 8100.4, Unified Capabilities before the system can connect to the DoD Information Network (DoDIN). All proposed system hardware and software shall have a valid JITC certification by the Test Readiness Review (TRR). Connection to the DoDIN will not be authorized until certification is updated and the system is fielded in accordance with the certification letter and applicable JITC deployment guides.

Non-certified or expiring JITC certified systems may be proposed provided a road map and Plan of Actions and Milestones (POA&M) is included in the offeror's proposal indicating that JITC certification will be achieved prior to TRR. Additionally, the offeror shall provide a mitigation plan in the event the proposed system does not achieve the required JITC certifications by TRR.

# 5.2.2 RISK MANAGEMENT FRAMEWORK FOR DoD INFORMATION TECHNOLOGY

Before the proposed hardware and software solution can be connected to the DoDIN via the MCEN, all system hardware, software, and ancillary equipment shall be Cybersecurity compliant IAW the latest version of the technical controls mandated by *DoDI 8510.01*, *Risk Management Framework* (*RMF*) for *DoD Information Technology* (*IT*). In addition, the contractor shall assist the Government by providing, developing, and submitting any necessary system documentation, settings, specifications, and hardening (application of Security Technical Information Guides (STIG), vulnerability scans, testing and installing patches, and vulnerability mitigation) required to update the Government Assessment and Authorization (A&A) package and entry into the Marine Corps Certification and Accreditation Support Tool (MCCAST v2). The delivered system will be incorporated to the BAN/LAN Site Accreditation following installation.

# 5.2.3 SECURITY AND TECHNICAL IMPLEMENTATION GUIDES, SECURITY REQUIREMENT GUIDES, AND ASSURED COMPLIANCE ASSESSMENT SOLUTIONS SCANS

The Contactor shall apply all applicable Defense Information Systems Agency (DISA) STIGs and Security Requirement Guides (SRGs) to all applicable hardware and software. This shall require the contractor to perform system vulnerability scans, system setting adjustments, software updates/patches, or system hardware/software reconfigurations and hardening. The contractor shall provide applicable STIG checklists; vulnerability scans with the DoD-approved Assured Compliance Assessment Solutions (ACAS) scanning tool, and a POA&M with mitigations and estimated completion dates for all open Cybersecurity findings. ACAS Vulnerability findings are defined as Critical/High = Category (CAT) I, Medium = CAT II, and Low = CAT III. STIG findings are defined as follows: CAT I, CAT II, and CAT III. All CAT I vulnerabilities shall be remediated or mitigated. All CAT II/III vulnerabilities must be remediated if a patch is available and STIG/SRG settings are configured without affecting system functionality. If a patch/STIG/SRG setting is not available or affects operational functionality, an acceptable mitigation (i.e., current processes or measures that reduce vulnerability exposure) must be provided in the POA&M with recommended completion dates.

All ACAS scans will be accomplished using the DISA Field Security Operations (FSO) scan policy Government Furnished Information (GFI) and latest ACAS plugin definitions available on the DoD Patch repository at the time scans are conducted. Contractor shall ensure all ACAS scans are completed with proper credentials and IAW the latest policies and guidelines as defined by DISA and/or the U.S. Marine Corps. All automated and manual STIG/SRG settings shall be applied.

#### 5.3 CONTRACT PROJECT PHASES

The accepted Request for Proposal (RFP) design constitutes the Conceptual Design baseline and is the starting point for every contract project.

This section identifies the Project Phases and Project Milestones/Reviews associated with this contract. These milestones include, but are not limited to, all the system technical reviews and audits ensuring the engineered design satisfies the PRS outlined in Part 8 of the PWS, Site Specific Requirements, and NCI Systems Engineering Plan (SEP). This timeline represents "Tailored Conformance" to meet a Systems Engineering Approach as directed by DoD guidance. The contractor's Contract Schedule shall include, at a minimum, all of the events identified in this section, beginning with Site Task Award, to mitigate potential adverse impacts to cost, performance, and schedule.

The NCI Contract Notional Timeline depicted in Figure 1 identifies the sequence of events for the contract.

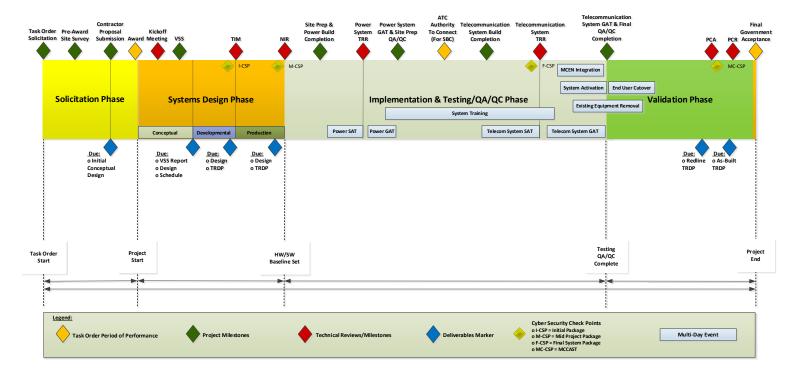


Figure 1 – Notional Timeline

#### 5.3.1 PROJECT MILESTONES AND EVENTS

The Notional Timeline depicted in Figure 1 coincides with the expected Contract events beginning with the Contract Solicitation. Mapping these design stages to NCI programmatic, Implementation Phases are as follows.

# 5.3.1.1 CONTRACTOR PROPOSAL SUBMISSION

The contractor shall submit a proposals within 30 calendar days from receiving the Request for Proposal from the Government. The proposal shall contain the contractor's proposed conceptual design and architecture, pricing, materials and equipment list, project plan, and project timeline including all the events identified in the notional timeline (durations, dates, and the proposed period of performance).

#### 5.3.1.2 SYSTEM DESIGN PHASE

The System Design Phase is initiated with the Award, signifying the start of the period of performance. Subsequent to the Award, the Government shall hold a Post Award Kick-off meeting. This Phase shall also include a contractor Verification Site Survey (VSS) to validate assumptions made on the information provided as part of the PWS. Throughout the duration of this Phase, the contractor shall deliver a detail system design and Technical Data Package (TDP) to be reviewed at designated technical reviews.

The contractor shall also deliver Cybersecurity documentation prior to the associated technical review events IAW the timelines identified in Table 2 - Contract Deliverables Matrix.

**Table 2 – Contract Deliverables Matrix** 

T	Table 2 – Contract Denverables Matrix			
Item Number	Item Title	Due	Deliverable Format	
1	Project Schedule	Proposed: fifteen (15) Calendar Days after the start of the VSS Monthly: NLT the last day of every month (Ad hoc Project Schedule Reports may be Requested)	MS Project 2016 and PDF	
2	Conceptual (Proposed) Design	Revised: NLT 15 (15) calendar days after the VSS	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF	
3	Verification Site Survey Report	NLT fifteen (15) calendar days after the VSS.	VSS Report: Contractor Format (PDF or Microsoft Office Word 2016 or later)	
4	Technical Data Package	Developmental: NLT fifteen (15) calendar days prior to the TIM. Production: NLT fifteen (15) calendar days prior to the NIR. Red Line: NLT the completion of Cutover. As-Built: NLT fifteen (15) calendar days prior to the PCR.	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF M&E List: Microsoft Office Excel 2016 or later HW/SW Baseline: Microsoft Office Excel 2016 or later	
5	RTM	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)	
6	SAT Plan	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen e(15) calendar days prior to the NIR. Final: NLT fifteen(15) calendar days prior to the TRR.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)	
7	ACAS Scans Schedule	Initial: NLT fifteen (15) calendar days prior to the TIM. Final: NLT fifteen (15) calendar days prior to the NIR.	Contractor Format (PDF and Microsoft Office Project 2016 or later)	
8	Cyber Security POA&M	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the Telecommunications Systems TRR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)	
9	Technical Controls	Initial: NLT fifteen (15) calendar days prior to the TIM.	Contractor Format (PDF or Microsoft Office Excel 2016 or later)	

Item Number	Item Title	Due	Deliverable Format
		Revised: NLT fifteen (15) calendar days prior to the NIR.	
10	Safety Assessment Report (SAR)	NLT fifteen (15) calendar days prior to the NIR.	Contractor provided format (PDF and Microsoft Office Excel 2016 or later)
11	Site Prep TPTCTS	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
12	Telecommunications TPTCTS	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
13	Cutover Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
14	IUID Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
15	STIG/SRG Check List	Current: NLT fifteen (15) calendar days prior to the Power Systems TRR.	Native format
16	ACAS Vulnerability Scans	Current: NLT fifteen (15) calendar days prior to the Power Systems TRR.	.nessus File format
18	Completed Telecommunications System TPTCTS	NLT ten (10) calendar days after the Telecommunications System GAT.	Government provided format (Microsoft Office Word 2016 and PDF)
19	Warranty Procedure Guide	NLT fifteen (15) calendar days prior to the PCA.	Contractor Format (PDF)
20	Installations, Operations and Maintenance, and SW User Manuals	NLT fifteen (15) calendar days prior to the PCA.	Contractor Format (PDF)
21	MCCAST Import Template	Current: NLT fourteen (14) prior to the PCR	Native format
22	Asset Shipping Report	An ASR shall be provided with each equipment shipment to ES&D.	Government-provided Format (Microsoft Office Excel 2016 or later)

The System Design Phase consists of three design levels: Conceptual, Developmental, and Production. (Reference Section 5.7.1.1 – Product Drawings and Associated Lists)

<u>Conceptual Design</u> provides the framework for the allocated baseline by defining the system and subsystem architectures and is delivered or established at proposal. The design shall include hardware and software lists, depiction of critical support system interfaces and any underlying services architectures as well as identification of all system CNs, DNs, and EUBs to ensure that the proposed system has an expectation of being operational, feasible, and satisfies the site-specific requirements.

**Developmental Design** describes the integration approach and is used to evaluate and validate that the design meets the required performance. This information is used to produce materiel for test and for the analytical evaluation of the inherent ability of the design approach to attain the required performance. This design level shall include but not limited to any updates associated with the Conceptual Design, all impacted building floor plans (both top and elevation views), wire, fiber, power, and grounding routing details, all rack/cabinet and ladder tray drawings. These design components shall be delivered prior to the Technical Interchange Meeting (TIM) for technical review and adjudication.

**Production Design** is a detailed and complete design that captures any updates to the Conceptual and Developmental Designs and shall include but not limited to all components, recommended spares, and applicable repair parts. The production design shall also include all applicable detailed wiring and cabling schematics. These design components shall be delivered prior to the Non-Developmental Item Integration Review (NIR) for technical review and adjudication.

#### 5.3.1.2.1 AWARD KICK-OFF MEETING

The Kick-off meeting shall be a review and discussion of the documents provided in the contractor proposal submission and provide a forum for both the Government and contractor to reach consensus on all project implementation expectations. Government will provide applicable deliverable templates to contractor. The contractor shall deliver their proposed project schedule at the kickoff meeting.

#### **5.3.1.2.2 VERIFICATION SITE SURVEY**

The contractor shall proceed to the place of performance to conduct a Verification Site Survey (VSS) within twenty (20) calendar days of Contract Award. The purpose of the VSS is to provide the contractor(s) an opportunity to validate assumptions made on the site information provided in the PWS. Coordination of the VSS visitation shall be facilitated by the NCI Project Manager, the contractor, and the site TSO. The VSS Report, Revised Conceptual (Proposed) Design, and the Baseline Project Schedule shall be provided to the Government IAW the criteria and timeline identified in Table 2 - Contract Deliverables Matrix. The VSS Report shall provide an accurate description of the existing conditions and identify any potential discrepancies or changes to the proposed design. Upon Government review and acceptance, authority to proceed to Developmental Design shall be granted and the Baseline Project Schedule established.

#### 5.3.1.2.3 TECHINCAL INTERCHANGE MEETING

The TIM is an informal meeting that fosters the exchange of ideas through open discussion and participation. The purpose of the TIM is to provide a forum for problem solving and information sharing between Government and contractor personnel that encourages cooperation and fosters

collaboration in resolving technical and engineering deficiencies and/or discrepancies. TIMs are to be conducted when necessary as determined by the COR/Project Manager. The contractor shall conduct at least one on-site TIM at the place of performance to adjudicate the results of the Government's review of the Developmental Design.

#### 5.3.1.2.4 NON-DEVELOPMENTAL ITEM INTEGRATION REVIEW

An NIR is a multi-disciplined product and process assessment to ensure the system under review can proceed into the Implementation & Testing and Quality Assurance (QA)/Quality Control (QC) Phase. This review assesses the TDP artifacts and reviews the Production Design. The contractor shall participate in a Government lead NIR IAW the NCI SEP. The NIR is a formal milestone review requiring Government acceptance. Successful completion of the NIR will establish the product baseline. The contractor shall demonstrate that the Detailed Design satisfies the specifications identified in the Contract Solicitation and the Site Specific Requirements (SSR). The contractor shall present a test and system cutover for the purpose of performing design verification and validation. The contractor shall also prepare and provide a Safety Assessment Report (SAR). The SAR shall identify the contractor's mitigation of any safety and environmental hazards identified in the NCI Programmatic Environment, Safety and Occupational Health, and Evaluation (PESHE).

#### 5.3.1.3 IMPLEMENTATION, TESTING, AND QA/QC PHASE

The Implementation, Testing, and QA/QC Phase shall begin with the acceptance of all deliverables associated with the NIR milestone. The contractor shall execute the system build to the accepted Production Design, beginning with Site Preparation and Power System installations, followed by installation and integration of the telecommunications systems components. The contractor shall provide continuous oversite of all subordinate contractors in accordance with all aspects of program management.

#### 5.3.1.3.1 SITE PREPARATION BUILD COMPLETION

This milestone incorporates the procurement and installation of all required system infrastructure, including, but not limited to, system racks, cabinets, and ladder racking. Upon completion of this milestone, the contractor shall ensure the installation complies with all local and regulatory requirements.

#### 5.3.1.3.2 SYSTEMS ACCEPTANCE TEST AND GOVERNMENT ACCEPTANCE TEST

Test and Evaluation (T&E) is an integral part of the systems engineering process. System/Subsystem Testing demonstrates the delivered solution fulfills the requirements and specifications of the PWS. Testing shall be performed in two phases, the System Acceptance Test (SAT) and the Government Acceptance Test (GAT). Separate SAT/GAT events will be performed for Telecommunications systems. SAT shall be contractor-performed testing that occurs prior to TRR. The Government will observe the SAT.

It is expected that the contractor shall install and test system/subsystem components without connection to the DoDIN/MCEN. As a result, the contractor may not be able to complete all required system and sub-system testing during SAT. It is expected that systems and subsystems requiring MCEN connection are hardened. The GAT leverages the final SAT documents provided by the SI to determine testing that demonstrates system-wide functionality of hardened devices. The government

will attend any contractor(s) scheduled SAT testing events to ensure test data integrity. GAT will be the final test event and all connections and interfaces shall be established during this time.

#### 5.3.1.3.3 TEST READINESS REVIEW

The TRR is a significant multi-disciplined technical review designed to ensure the system and/or subsystem under review is ready for Government testing and functions as the transition from SAT to GAT. The TRR assesses test objectives, test methods and procedures, test scope, and safety to confirm required test resources have been properly identified, made available, and coordinated to support planned tests. The TRR verifies the traceability of planned tests through the use of the RTM. It determines the completeness of test procedures and their compliance with test plan descriptions. The TRR also assesses the system under review for development maturity, cost/schedule effectiveness, and risk to determine readiness to proceed to formal testing.

#### 5.3.1.4 VALIDATION PHASE

The Implementation Phase shall transition into the Validation Phase upon successful completion of the Telecommunications System GAT and the final QA/QC inspection.

#### **5.3.1.4.1 CUTOVER**

Cutover is the process of migrating existing circuits and end-user services (voice and data) from legacy systems to the newly installed contractor-provided solution. The contractor shall develop a detailed Cutover Plan to support cutover. The Cutover Plan shall provide the approach, schedule, required Government resources, system outages, and fall back plan.

The contractor shall be responsible for performing a flash cutover, unless deemed impractical due to technical, logistical, or base operational constraints, of all services identified in this document. This shall include capturing and validating existing system's database and subscriber information, transferring information, configuring, and deploying the new system to the end-user device. This information includes, but is not limited to, dial plans, subscriber features and capabilities, call lists, settings and configurations. The cutover shall also include hardware and patching of existing subscribers and services inside the closets and at the end user locations. Cutover methods utilized shall minimize service-affecting outages and be described in detail in the Cutover Plan.

The contractor shall conduct service-affecting cutovers of systems outside normal duty hours with minimal downtime as designated by the TSO. During system cutover, the contractor shall establish, staff, manage and support all on-site help desk functions and responsibilities to include customer calls, creating trouble tickets and logs, tracking reports for active and closed tickets, answering subscriber questions and correcting deficiencies, and coordinating with the TSO to prioritize trouble tickets. An electronic and paper copy of the Trouble Ticket Log shall be maintained on-site for Government inspection during cutover. The Trouble Ticket Log shall be turned over to the Government after resolution and closure of all Trouble Tickets directly attributable to the contractor's solution.

#### 5.3.1.4.2 SYSTEM OUTAGES

Any work requiring system downtime shall occur during off-duty/weekend hours, be kept to a minimum, and not occur without specific acceptance from NCI Project Manager and the site TSO. The contractor shall submit a system recovery/fallback plan for review and acceptance for all scheduled outage. The system recovery/fallback plan shall be provided as part of the Cutover Plan.

## 5.3.1.4.3 REMOVAL OF EXISTING EQUIPMENT

Upon Government approval, the contractor shall decommission, disconnect, de-install, dismantle, and remove all displaced core switching equipment. The contractor shall remove any system anchors, brackets, and racks protruding from the floors and/or walls. The contractor shall ensure that no active service is disrupted during the switch or equipment removal and shall be liable for any costs incurred by the Government to restore disrupted service. All replaced core switching equipment shall be removed and properly disposed of by the contractor.

Existing equipment identify by the Government for reuse and redistribution will be turned over to the Program Office upon removal. Disposal of all equipment shall be coordinated through the TSO and the Installation's Defense Logistics Agency - Disposition Services (DLA-DS) to ensure compliance with Government disposal procedures. The contractor shall provide the Government with a document identifying all replaced core switching equipment. At a minimum, the following fields shall be included: name, part number, description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

#### 5.3.1.4.4 PHYSICAL CONFIGURATION AUDIT

The Physical Configuration Audit (PCA) shall be conducted to determine conformance of the as built configuration to the product baseline with the TDP. The PCA shall be a joint audit conducted by the contractor and Government. The results of the audit shall be documented by the contractor and adjudicated by the Government before Project Closeout Review (PCR) for inclusion in the As-built TDP.

#### 5.3.1.4.5 PROJECT CLOSEOUT REVIEW

The Project Closeout Review (PCR) shall be conducted to verify all project requirements have been satisfied, all deliverables have been submitted to the Government, and all Government administrative actions have been completed.

#### 5.4 PROJECT ADMINISTRATION/MANAGEMENT

#### 5.4.1 PROJECT PLAN

The contractor shall establish, deliver, and ensure that a Project Plan remains in effect throughout the project period of performance. At a minimum, the Project Plan shall focus on and align with the Project Schedule. The Project Plan should address areas such as Safety, Configuration Management, and Risk Management. The Project Plan shall clearly demonstrate an understanding of the project timeline and associated milestones for the project and how the contractor plans to satisfy the requirements of the PWS. The Project Plan shall address a management approach and highlight actions that will be taken to mitigate risk to cost, schedule, and performance, highlight any possible positive or negative impacts, and provide details on the process to deal with unforeseen site conditions, schedule slips, or other problems of program risks. The Plan shall describe the contractor's approach to Resource Management and shall identify the project team.

# 5.4.2 PROJECT SCHEDULE

The contractor shall deliver and maintain an accurate and up-to-date project schedule that accurately reflects the current status of the project progress and resources. To ensure proper management and accuracy of the project schedule, the contractor shall coordinate and consult with relevant stakeholders throughout the course of the project. The project schedule shall include all significant events, detailing each sequence of work that should be completed, identify major milestones and tasks from start to completion of the project, as well as include all critical path events. At a minimum, the project schedule shall identify the following columns: Start, Finish, Baseline Start, Baseline Finish, Duration, and Percent Complete for each task, to include the associated task paths (successors, predecessors, etc.). The contractor shall deliver the proposed Project Schedule within twenty (20) calendar days after the start of the VSS. The Government will then have fifteen (15) calendar days to review and coordinate with the contractor any necessary corrections and updates in order to establish a baseline schedule. The accepted project schedule will then become the baseline and will not change throughout the duration of the project, except in the event of contract modifications that impact the project schedule (scope increase/decrease, etc.).

The contractor shall reference and adhere to the guidance in the NCI Schedule Management Plan.

#### 5.4.3 MEETINGS

The contractor shall plan, host, attend, coordinate, support, and conduct meetings, formal reviews, conferences, and audits required during the period of performance of this contract. Meetings shall be conducted at either Government or contractor facilities, or via conference call/video teleconference. The contractor shall prepare agendas and meeting presentation materials for each meeting. The contractor shall also provide minutes and reports following each meeting. The minutes must include a summary of all action items, dates assigned, responsible parties, and estimated completion dates of testing.

#### 5.4.3.1 PROJECT STATUS REVIEW MEETINGS

The contractor shall plan, host, coordinate, and conduct a Project Status Review (PSR) each week throughout the period of performance for the purpose of reviewing and updating the Government on the current status of the project. To support the administration and management of the Weekly PSR, the contractor will provide a Meeting Agenda, Action Items List, and Project Schedule two (2)

calendar days prior to the execution of the Weekly PSR. In addition, the contractor shall provide meeting minutes NLT two (2) calendar days after the PSR.

The Meeting Agenda will address, at a minimum, the following areas of concern:

- 1. Introductions/Documentation of Attendance
- 2. Summary of Week's Activities
  - a. Issues encountered and resolutions taken to address
  - b. Issues encountered and still unresolved
  - c. Completed activities for the week
- 3. Activities Planned for the following week
- 4. Overall Project Status Review
- 5. Action Item/Register Review
- 6. Review Deliverables Status
- 7. Review any changes to the TDP and Design Drawings (Redline Drawings)
- 8. Materials Status
  - a. Discuss preformed Quality Reviews and the results
- 9. Coordination Resolution of any identified deficiencies
- 10. Discussion of Upcoming Significant Events; possible issues and mitigations (as needed)
- 11. Project Schedule Review relative to the Baseline Project Schedule for thirty (30) calendar days before and thirty (30) calendar days after the PSR
- 12. Coordinate any staffing updates to the project team(s)
- 13. Additional Questions/Open Forum
- 14. Meeting Summary/Assigned Action Item Review.

An Action Item List shall be maintained and delivered as part of the contractor's weekly progress. Closed action items shall only be presented one time. The Action Item List shall contain the following tabs at a minimum:

- 1. Meeting Attendees
- 2. General
- 3. Site Prep
- 4. Data
- 5. Voice

- 6. Schedule Review
- 7. Deliverable Review
- 8. Closed
- 9. Risk Log
- 10. Personnel
- 11. Shipping
- 12. Damage Incident Log
- 13. Stakeholder Contact Info
- 14. Risks Matrix

# 5.4.4 OUALITY CONTROL

The contractor shall develop and maintain an effective quality control program to ensure services are performed in accordance with this PWS. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor's quality control program is the means by which he assures himself that his work complies with the requirement of the contract. The contractor shall provide a written Quality Control Plan (QCP) with the IDIQ proposal. Any changes arising from this effort will be incorporated into any subsequent award. Post-award changes to the QCP shall be submitted to the Contracting Officer and COR within five (5) calendar days of the affected change. The Contracting Officer will provide written acceptance of any proposed changes after delivery of the revised QCP. In addition, the contractor shall incorporate the following minimum elements into the QCP.

- Definition of contractor quality control management lines of responsibility
- Quality Control Management System Process
- Internal Design Review/Change Control Process
- Internal Document Control Process
- Process for Testing
- Process for the execution of Corrective Actions
- Process for maintaining Quality Assurance records throughout the project lifecycle
- Process for performing random internal Quality Control audits.

# 5.4.4.1 QUALITY ASSURANCE

The Government will evaluate the contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan (QASP). This plan is primarily focused on what the Government must do to ensure that the contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied, the frequency of surveillance, and the minimum acceptable quality levels. The contractor shall provide an assessment detailing their conformance to both the technical and programmatic management of the contract.

#### 5.5 LOGISTICS SUPPORT

The contractor shall provide dedicated logistic support to plan and coordinate efforts that integrate logistics and life cycle support considerations into the design of the system. The effort shall be conducted as an integral part of the development, integration, and test processes to define the range and depth of the required support, to develop supportability data products, and to address all applicable elements of logistics.

#### 5.5.1 LOGISTICS MANAGEMENT

A joint Government/contractor coordination shall be established to monitor the status of the program implementation. The coordination will be conducted to address logistic matters, schedules, warranty, and PWS performance. The Government will oversee and monitor the contractor's implementation of applicable logistics elements during the project period of performance and throughout the warranty period. The Government has the right to request status of what's in place in and in storage at any time during the contract.

## 5.5.2 ITEM UNIQUE IDENTIFICATION

The contractor will develop an Item Unique Identification (IUID) Plan and implement specific IUID markings, in accordance with Defense Federal Acquisition Regulation Supplement (DFARS) 252.211-7003, DFARS 252.245-7001, SECNAVINST 4440.34, MIL-STD-130N to include recommendations for marking of spare assemblies and subassemblies, components, and parts below \$5,000 and highly pilferable to include recommendations for marking of spare assemblies, subassemblies, components, and parts below \$5,000. The Government shall make the final determination for IUID marking of items below \$5,000. All spare parts, secondary repairable items, and consumables that exceed \$5,000 and Government selected items under \$5,000 will be marked with the item IUID prior to delivery to the Government. The IUID marking shall be incorporated into existing data plates when possible. Bar coding and the two dimensional IUID data matrix shall be machine-readable with common optical scanning devices and be accompanied by the corresponding human readable markings when practical. All 2D data labels shall be permanently affixed and shall ensure its readability during normal operational use. The plan shall also describe the marking process and identify marking locations for each item identified. The contractor will identify the location of approved IUID markings within all drawings.

The contractor will load all IUID data into the DoD IUID Registry NLT fifteen (15) calendar days after completion of the PCA. Additionally, the contractor shall load all serial items to include IUID data into invoice Receipt Acceptance and Property Transfer (iRAPT) formally known as Wide Area Work Flow (WAWF). The contractor will provide an IUID Marking Activity and Verification Report for each system and spares delivered to the Government. The IUID Marking Activity and Verification Report will include a listing of all IUID assigned numbers by Contract Line Item Number (CLIN), Sub-Line Item Number (SLIN), or Exhibit Item and contain the model number, part number, serial number (if applicable), and parent/child relationship.

#### 5.5.3 PARENT END ITEM DATA PLATE INFORMATION

The contractor will use Table IV (UII Construct 1 or 2) and Figure 1 of MIL-STD-130N as a guide when developing the NCI data plate. The Parent End Item 2D matrix shall contain human and

machine-readable markings and shall be no less than 1 cm wide and no less than 40 percent contrast. The minimum data plate information for NCI Parent End Items are as follows:

- 1. Nomenclature
- 2. NSN (if available)
- 3. Design Activity: (MFR ID Cage Code)
- 4. Serial Number
- 5. Government Ownership Designation: U.S. Property
- 6. Contract Number
- 7. Two-dimensional IUID data matrix
- 8. Unique Item Identifier (UII).

#### 5.5.3.1 SUB ASSEMBLY DATA PLATE INFORMATION

The contractor will use Table IV (UII Construct 1 or 2) and Figure 1 of MIL-STD-130N as a guide when developing the NCI sub-assembly data plate. The Sub-Assembly 2D matrix shall contain human and machine-readable markings and shall be no less than 1 cm wide and no less than 40 percent contrast. All applications must be permanently affixed, as well as human and machine-readable when the necessary space is available. For sub-assembly items that do not currently utilize a data plate, the contractor will refer to MIL-STD-130N to develop best business practices for a display of the data elements below. The IUID data plates shall display the following minimum information:

- 1. NSN (if available)
- 2. Part Number
- 3. Serial Number
- 4. Manufacturer Cage Code
- 5. 2-dimensional IUID data matrix
- 6. Unique Item Identifier.

#### 5.5.4 WARRANTY

The contractor shall provide a full, unlimited one-year warranty for all contractor provided hardware/software, materials, and workmanship. The warranty shall begin immediately upon Final Government Acceptance of all items delivered under this contract.

The contractor shall establish and maintain a warranty performance system that identifies and documents all items to be warranted under this contract. Each item warranted shall be indexed and identified by serial number, model number, part number, Unique Identification (UID), warranty period, Original Equipment Manufacturer (OEM), and date of acceptance by the Government. All pertinent data required for the Government to pursue warranty provisions, remedy, and relief for each item shall be provided to the Government in the form of a Warranty Procedures Guide and shall be maintained by the contractor for the duration of the warranty period. All warranty claims and transactions shall be documented and made available for Government review upon request or during scheduled meetings and/or reviews throughout the life of all warranted items used in all production phases of the NCI Program.

All costs for shipping and handling for warranted items from and to the field activity are the responsibility of the contractor. The warranty period will cover all hardware, software/firmware, materials, installation services, applicable Software (SW)/Cyber Security (CS) updates, and workmanship provided for the overall system design solution. Hardware/Equipment warranty will include repair and return services for all hardware/equipment replacement that will be configured with software/firmware and ready to install upon receipt.

#### 5.5.5 ENVIRONMENTAL SAFETY AND HEALTH

#### 5.5.5.1 SYSTEMS SAFETY

The contractor shall identify all hazardous material associated to the newly installed equipment and deliver the applicable Material Safety Data Sheet (MSDS) to the Government. The contractor shall identify and evaluate safety and health hazards and define risk levels that manage the probability and severity of all hazards associated with development, use, and disposal of the system in accordance with MIL-STD-882D. Residual risks will be evaluated by the Government in accordance with Tables A-I through A-IV of MIL-STD-882D and reviewed for acceptance or further risk mitigation action IAW the PESHE.

# 5.6 GREY MARKET ITEMS, LICENSE TRANSFERABILITY, AND END USER TERMS AND CONDITIONS

In order to minimize the risk of the Government purchasing counterfeit products or unauthorized secondary market equipment, which would not be supported by the OEM, and to ensure that the Government purchases only equipment that is genuine (i.e., not counterfeit), authorized (e.g., not gray market, includes appropriate licenses, etc.), and supported (e.g., warranty and support services) by the OEM, when it submitted its proposal, the contractor, for:

Hardware: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of the proposal and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor warrants that all products provided under this contract are new. By submitting any proposal under this contract, contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of contract award. Contractor agrees that it will provide a list of serial numbers for any hardware provided or installed. Failure to provide this information may result in delays to acceptance and payment. The Government will use this information to confirm with the Manufacturer or OEM that the hardware is (1) genuine (not counterfeit) and (2) authorized hardware that has been sourced and provided in accordance with the Manufacturer's applicable policies (e.g., not gray market or diverted). If the Manufacturer indicates that the hardware meets these two requirements, the Government will notify the contractor. If the Manufacturer indicates the hardware does not meet these two requirements, the Government may reject the hardware, revoke acceptance, or pursue any other available and appropriate remedies under the contract.

<u>Software</u>: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of award and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in

accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor shall warrant that all products are new, or, in the case of downloadable software, that all software is sourced from the OEM or Authorized Reseller. By submitting its proposal contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of this contract. Contractor shall certify that it has notified the software Licensor that the United States Marine Corps (Buyer) will be the Licensee. Contractor shall have provided, with any proposal, a copy of the End User license Agreement (EULA), Terms of Service (TOS), or other similar legal instrument or agreement and warrants that all Manufacturer software is or will be licensed originally to Buyer as the original Licensee authorized to use the Manufacturer Software. Note the provisions of FAR 52.212-4(u) apply.

<u>Maintenance</u>: If, during performance of any maintenance required under this contract, the contractor provides replacement hardware or software, then the above Hardware, Software, or both requirements, including all required certification and compliance requirements, apply. The contractor shall ensure that the Government shall have full rights and entitlements to any software maintenance procured under this contract for software for which it has been identified as the original licensee or for which a license is subsequently transferred to the Government.

<u>Hardware</u>, <u>Software</u>, <u>and/or Maintenance</u>: If the contractor is not a Manufacturer Authorized Partner as of the date of the submission of its proposal then, as applicable, contractor shall submit with its proposal a document, from the Manufacturer, that identifies the Vendor by name and states the following:

- (1) That the products proposed (including hardware, software, and/or support services) are genuine (i.e., not counterfeit and not unauthorized secondary market/gray market products) (note: all items, including part numbers where applicable, shall be listed in the document);
- (2) That contractor has the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, in accordance with the applicable Manufacturer certification/specialization requirements;
- (3) That contractor will be able to receive from Manufacturer, and that Manufacturer will not deny, the support services required to support the product(s);
- (4) That contractor has the authority to transfer to the Government all appropriate software licenses associated with the product(s) at no additional cost to the Government; and
- (5) That Manufacturer will not deny required warranty support for the product(s).

The Government's remedies for the contractor's failure to provide conforming products or services consistent with the above requirements are detailed in FAR 52.212-4, with emphasis on paragraphs (a), (m), and (u).

This contract contains the clauses, terms, and conditions acceptable to the Government. Any hardware, software, or maintenance provided under this contract that contains conflicting terms or conditions, including but not limited to an EULA, Software License Agreement (SLA), Purchaser User Rights (PUR), Product User Rights (PUR), Software User Rights Agreement (SURA), Support Agreement, Maintenance Agreement, or any other vendor or OEM-specific agreements regardless of how titled or described, may be considered unacceptable. The contractor is on notice that if they

choose to submit a document containing terms and conditions, they are required to demonstrate that those terms and conditions do not conflict with, or differ from, this contract's terms and conditions, as well as any statute or regulation (e.g., FAR and DFARS). The contractor must provide the Government with an opportunity to review, modify, and approve any relevant EULA, SLA, SURA, PUR, or any other similar OEM-specific agreement, related to items procured under this contract for which the Government will be the licensee or will otherwise take title to. Compliance with this section is a component of technical acceptability for any proposal and for final project acceptance. Vendor-specific or OEM-specific terms and conditions that conflict with statutory or regulatory requirements, or are otherwise disadvantageous to the Government as noted above, may be determined unacceptable.

#### 5.7 DELIVERABLES

# 5.7.1 TECHNICAL DATA PACKAGE

The contractor shall develop a TDP that contains Engineering Design Plan (EDP), design specifications, and drawings describing and depicting the solution and configuration of all systems and subsystems delivered in support of MCB Quantico's Contract. The review and acceptance process for all design specifications and drawings include a Conceptual Design data package, Developmental Design data package, Production Design data package, Redlines Drawings and As-Built Drawing package. The format for the TDP will be provided to the contractor by the Government at the Contract Kickoff meeting. The TDP shall consist of the Engineering Design Plan, Engineering Design Drawings, Systems Configuration Hardware/Software Baseline (CMDB File), and Materials and Equipment List to include Long Lead Items List. All increments of the TDP shall be delivered in accordance with the timelines identified in Figure 1 and the criteria outlined in Part 8, Technical Exhibit 2, Deliverables Schedule and IAW MIL-STD 31000B, ASME Y14.100, ASME Y14.24, ASME Y14.35M, and ASME Y14.34M.

The contractor shall document all design modifications and/or revisions to the accepted Production Design Data TDP via an ECP IAW the CMP. The ECP shall include updated the Red-line Engineering Design Package that accurately depicts the proposed engineering change. Revisions to the Redline drawings shall be provided every thirty (30) calendar days and previous drawing revisions implemented to produce an updated version. The Redline TDP will be used to perform the Physical Configuration Audit (PCA). Any changes to the redlined drawings and/or CMDB file will be recorded during the Physical Configuration Audit (PCA) and documented in the As-built TDP. The contractor shall provide the As-built TDP at the completion of the project at the Project Closeout Review (PCR) and incorporate all design changes and modifications performed during the implementation.

The contractor shall deliver a Draft CMDB File along with all other required artifacts of the TDP IAW Figure 1 - Contract Notional Timeline as part of the Technical Review Data Package for the Technical Interchange Meeting (TIM), that contains all relevant information about the hardware and software/firmware components provided in the accepted engineering design and the relationship between those components. The contractor shall deliver the Final CMDB file along with all other required artifacts of the TDP as part of the TRDP for the NIR. The CMDB provides an organized view of configuration data and a means of examining that data from multiple perspectives. The CMDB File shall identify all Configuration Items (CIs) delivered under this contract and the associated information and the interface between system components.

As part of the Materials and Equipment List, the contractor shall provide the OEM recommended minimum essential spare parts for DWDM equipment and systems provided under this PWS in order to alleviate system downtime in the event of a critical DWDM hardware failure. The minimum essential DWDM spares shall be identified separately in the Materials and Equipment List. The contractor shall restock any spare DWDM parts utilized during the modernization effort and warranty period.

#### 5.7.1.1 PRODUCT DRAWINGS AND ASSOCIATED LISTS

The contractor shall develop and deliver a TDP with the associated lists and artifacts describing and detailing the installation and configuration of all systems and subsystems delivered in this contract. This process may require the revision and update of existing drawings, and/or development of new drawings to meet the requirements of TDP drawings and associated lists. Only FINAL versions of the Conceptual, Developmental, Production, Redline, and As-Built data packages will be considered for acceptance by the government and represent fulfillment of the deliverable requirements. Existing, revised, new product drawings, and associated lists shall be used as the engineering data for procuring, controlling, using materials, parts, and assemblies whether produced in-house or supplied by the contractor. The drawings shall be used for the manufacture, assembly, provisioning, inspection, testing, and Configuration Management (CM) of the materials, parts, modules, subassemblies, assemblies, and product baseline of the hardware and software delivered in this contract. The TDP and associated lists shall not carry any proprietary markings. The contractor shall provide the necessary design, engineering, manufacturing, and quality assurance requirements necessary to enable the procurement or manufacture of an interchangeable item that duplicate the physical and performance characteristics of the original product. This must be accomplished without any additional design engineering effort or recourse to the original design activity.

- 1. The contractor shall comply with MIL-STD-3100B, "Technical Data Packages".
- 2. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 3. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 4. The contractor shall comply with the ASME Y14 Standards and lessons learned to improve the use of the Title Block, Revision Block, Sheet Numbering, and add Parts Lists and a Master Parts List Drawing Type.
- 5. The contractor shall comply with Installation Design Plan (IDP) drawing codes. (shown in Table 3).

	Table 5 Engineering Design Drawing List				
	IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE	
1	DT	DT	Drawing Tree	D, P, RL, AB	
	000	000	Functional Interface Diagram (Architecture Drawings)	D, P, RL, AB	
	010	000	Site Master Index	D	
	020	200	Installation Master Drawing	D, P, RL, AB	
	022	100	Master Parts List	D, P, RL, AB	

Table 3 – Engineering Design Drawing List

IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE
023		Technical Data Summary	D, P, RL, AB
040	400	Floor Plans and Elevations	D, P, RL, AB
050	400	Antenna Layouts and Elevations	D, P, RL, AB
060	500	Simplified Block Diagrams	D, P, RL, AB
070	500	Cable Block Diagrams	D, P, RL, AB
090		Cross Connect Records	P, RL, AB
100		Distribution Frame Layout	D, P, RL, AB
110	600	Circuit Diagrams D, P, RL, AF	
120	600	Labeling Details	P, RL, AB
130	600	Patch Panel Layouts P, RL, AB	
140		Power Distribution	D, P, RL, AB
160	300	Cable Routing Layouts	D, P, RL, AB
171	700	Mechanical Assembly and Mounting Details	D, P, RL, AB
180	800	Miscellaneous Installation Details	D, P, RL, AB
190	190 Miscellaneous System Configuration Details D, P, RL, AB		D, P, RL, AB
<u>LEGEND</u>			
C-Conceptual, D-Developmental, P-Production, RL- Red Line, AB-As Built			

#### 5.7.2 SYSTEMS ACCEPTANCE TEST PLAN

The contactor shall prepare a Systems Acceptance Test (SAT) Plan that encompasses all system and sub-system test activities planned for each system. The following areas shall be emphasized in the SAT Plan: Test Event, Purpose of the Test, Date of Test (Start and End), Location of the Test, Need for Government Test Support, Schedule of Individual Test Events, and Test Procedures.

# 5.7.3 TEST PROCEDURES, TEST CASES, TEST SCRIPTS

The Test Procedures, Test Cases, Test Scripts (TPTCTS) aligns with the SAT and GAT Plans; identify how each system is integrated, tested, and meets the specified system requirement. The TPTCTS shall include the following: Test Event; Test Diagram; Purpose of the Test; Test Entrance Criteria; Date of Test (Start and End), Location of the Test; Need for Government Test Support; Met, Not Met, or Met With Exception Criteria; and signature block for the Test Operator and Government Witness. The Contactor shall provide TPTCTSs, as individual appendices to the SAT Plan for each system and sub-system delivered under the PWS. The Test Procedures shall include all test cases and test scripts to demonstrate all system and sub-systems meet the specific requirements of the PWS.

# 5.7.4 REQUIRMENTS TRACEABILITY MATRIX

To ensure compliance with all requirements, the Contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all requirements defined in the PRS and site-specific requirements. The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, demonstration) to validate the contractors proposed system design for Government acceptance.

#### 5.7.5 CUTOVER PLAN

The contractor shall develop a detailed Cutover Plan. The Cutover Plan shall provide the overall plan including the schedule, required Government resources, system outages, and fall back plan. In addition, the plan shall contain the system specific detailed procedures.

The contractor shall develop a detailed Cutover Plan for each system and subsystem. The Cutover Plan shall be system specific and shall include, at a minimum, a sequential list of events, detailed procedures, post-Cutover testing requirements/procedures, scheduled service outages/windows, service priority based cut-sheets, and system recovery/fall back plan. The Cutover Plan including any modifications must be accepted by the Government prior to commencement of cutover. Cutover shall not begin without a Government acceptance of the proposed cutover plan.

#### 6 TRAINING

#### 6.1 NEW EQUIPMENT TRAINING

For all non-Cisco OEMs, New Equipment Training (NET) shall be provided by the OEM or OEM certified trainers utilizing the Government approved course of instruction. NET shall consist of courses for administrators, operators, and maintainers (when deemed necessary). The contractor shall detail their training plan in their proposal. Where eLearning or web-based courses are involved a remote registry (user name and password) must be provided to the receiving units for access to the OEM courses. The courses shall not be more than eight hours in length each day and will be conducted Monday through Friday during normal business hours. Following completion of NET, Government approved comments received from attendees (Instructor Rating Forms, End of Course Critiques) shall be incorporated into the course to yield an improved product. The training shall be of sufficient depth and shall include "hands-on" time with the system to ensure that personnel are qualified to teach others (train the trainer concept) and to safely perform tasks in the intended operational environment. Training materials shall be provided IAW the requirements in the Section 6.1 - Training and Table 4 - Training Deliverables Matrix.

Item Number	Item Title	Due	Deliverable Format
1	Training Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of training.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
2	Training Materials	NLT fifteen (15) calendar days prior to the start of training.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
3	Training Material Updates	As required.	Contractor Format

**Table 4 – Training Deliverables Matrix** 

# 6.2 TRAINING PERFORMANCE AND EVALUATION

The NCI Logistician and Manpower and Training (MPT) Lead will observe and evaluate the first instance of each training session. The contractor shall update the training materials (if applicable) in preparation for the next training event according to the comments received from attendees and MPT Lead's evaluations, recommendations, and comments. After each training event, all evaluation materials (tests, instructor rating form, and end of course critique) will be delivered to the MPT Lead for ongoing training analysis. An attendance roster shall be administered for each class substantiating each day of attendance and contain each student's basic information such as first and last name, grade, and Military Occupational Specialty (MOS) or Job Series. This roster shall also include class title(s), date and location, the name of the instructor, and the instructor's employer.

#### 6.3 TRAINING MATERIALS SUSTAINMENT

The contractor shall provide any revisions to the training course materials to each student in hard and soft copy. This includes all training material and technical literature required to teach the course (train the trainer concept) which includes but is not limited to instructor lesson plans, student guides, instructional visual aids, and any tests or practical applications with answer guides.

#### 6.4 TRAINING PLAN

The contractor shall prepare and provide a Training Plan to include strategy, methods, and resources to deliver training. This includes training concepts that incorporate course description, learning objectives, conditions, and standards. The Training Plan shall identify delivery methods, media type, anticipated training time, test, and evaluation. The Training Plan shall identify location, frequency, throughput, mitigated safety risks, classroom facilities, and training schedules.

#### 6.5 TRAINING MATERIALS

All training material shall be prepared per MIL-PRF-29612 and the Systems Approach to Training Manual, NAVMC 1553.1. Materials that fall under parameters of Commercial Off-the-Shelf (COTS) or non-developmental items do not necessarily have to be drafted under the specific templates but have to contain the elements within SAT guidelines.

The MPT Lead shall have fifteen (15) calendar days to review the any training materials submitted by the Contractor in the Training Plan, to ensure compliance with MIL-PRF-29612 and SAT Manual (NAVMC 1553.1) guidance and to provide comments and recommendations to the Logistics Lifecycle (LCL) lead.

## 7 MANDATORY COMPLIANCE DOCUMENTS AND STANDARDS

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

- 1. Marine Corps Systems Command, Statement of Need (SON) for the Marine Corps Base Telecommunications Infrastructure (BTI), MCB Quantico: Marine Corps Systems Command, 2010.
- 2. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need, MCB Quantico: Marine Corps Systems Command, 2012.
- 3. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need (SON), MCB Quantico: Marine Corps Systems Command, 2013.
- 4. Marine Corps Systems Command/PMM-110, BTI Program Protection Plan, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 5. Marine Corps Systems Command/PMM-110, BTI Test Evaluation Strategy, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 6. USMC UC Implementation Plan v 1.0, Oct 9 2013 Unified Capabilities Implementation Plan.
- 7. MCSC/P IS&I, PMM-110/037-15, Acquisition Decision Memorandum for the Base Telecommunications Infrastructure Program, Quantico: Marine Corps Systems Command, 2015.
- 8. Department of the Navy (DoN), Next Generation Enterprise Network Capabilities Production Document, v. 1.5.6, 2012.
- 9. Marine Corps Wide Area Network (WAN) Transport Implementation Plan. Version 1.01 dtd 9 September 2017.
- 10. Department of the Navy, Unified Capabilities Implementation Plan, Washington, DC Department of the Navy, 2015.
- 11. Navy UC Implementation Plan Nov 22, 2013 Unified Capabilities Implementation Plan

- 12. DoN Software Process Improvement Initiative (SPII) Guidebook Department of the Navy Policy for Acquisition of Naval Software Intensive Systems, September 16, 2008.
- 13. Department of Defense, Defense Acquisition Guidebook (DAG).
- 14. Defense Information Systems Agency (DISA) Net-Centric Enterprise Services (NCES).
- 15. Department of Defense/DISA, "JITC UC Document Depot / EMS) Letter of Clarification Template Requirements," 4 May 2016.
- 16. US DoD System Safety Program, 2009.
- 17. DoD Information Enterprise Architecture Information Enterprise Architecture, v1.1, May 2009.
- 18. DoD, Manual For The Operation Of The Joint Capabilities Integration And Development System (JCIDS), 2012.
- 19. DoD Internet Protocol Version 6 (IPv6) Standard Profiles For IPV6 Capable Products Version 6.0 July 2011.
- 20. DoD Federal Acquisition Regulation Supplement (DFARS) 252.211-7003 Item Identification and Valuation.
- 21. DoD/CIO UCF January 2013 Unified Capabilities Framework.
- 22. DoD Procurement Toolbox, 2016.
- 23. Department of Defense Architecture Framework (DoDAF) v2.0.
- 24. Department of Defense/Defense Information Systems Agency Unified Capabilities Framework, Washington: Department of Defense/Defense Information Systems Agency, 2013.
- 25. DoD, Department of Defense Unified Capabilities (UC) Extensible Messaging and Presence Protocol (XMPP) Errata-1.
- 26. DoD, Department of Defense Assured Services (AS) Session Initiation Protocol (SIP).
- 27. DoD Guidance on Protecting Personally Identifiable Information (PII).
- 28. Federal Information Security Management Act (FISMA) of 2002 Standards and guidance for minimum-security requirements for Information Systems.
- 29. Modular Open Systems Approach (MOSA), Version 2.0.
- 30. Security Configuration Guides.
- 31. Strategic Command Directive 527-1 DoD Information Operations Conditions (INFOCON) System Procedures.
- 32. VoIP STIG Version 3, Release 15, VoIP Security Technical Implementation Guide.
- 33. DISA Policy and Guidance.
- 34. DISA, DoD Telecommunications and Defense Switched Network Security Technical Implementation Guide.
- 35. Network Infrastructure STIG Version 8, Release 8.
- 36. The Certificate Issuing and Management Components family of Protection Profiles (PPs).
- 37. Information Technology Infrastructure Library (ITIL) v3 Foundation Procedures, tasks and checklists used by an organization for establishing a minimum level of competency.
- 38. USAISEC OSPDPR Outside Plant Design and Performance Requirements (OSPDPR).

- 39. USAISEC I3A-2010 Technical Criteria for the Installation Information Infrastructure Architecture (I3A).
- 40. International Building Code (IBC 2015).

# 7.1 FEDERAL PUBLICATIONS

Publication	Short Title
NIST SP 800-58	Voice Over IP (VoIP) Security
CNSSI 5000	Guidelines for VoIP Computer Telephony
OSHA 29 CFR 1910	Occupational Safety and Health Standards
OSHA 29 CFR 1910.269	Electric Power Generation, Transmission, and Distribution
OSHA, 29 CFR 1926.50	Medical services and first aid
OSHA 29 CFR 1926.403	Safety and Health Regulations for Construction
OSHA 29 CFR 1298	Occupational Safety and Health Standards, Washington: Occupational Safety and Health Administration, 2007

# 7.2 MILITARY UNIQUE STANDARDS

Publication	Short Title
MIL-STD 130N w/CH 1	Identification Marking of U.S. Military Property
MIL-STD-461G	Requirements for the Control of Electromagnetic Interference
MIL-STD-464C	Electromagnetic Environmental Effects Requirements for Systems
MIL-STD-810G w/CH 1	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-882D	Standard Practice for System Safety
MIL-STD-129R	Military Marking for Shipment and Storage
MIL-STD-188 124B	Grounding Bonding and Shielding
DI-MGMT-81650	Integrated Master Schedule (IMS)
MIL-HDBK-419A	Grounding and Bonding
MIL-HDBK-1013/1A	Design Guidelines for Physical Security of Facilities

# 7.3 Dod Opnav and marcorsyscom standards and references

Publication	Short Title
ASTM D3951 - 15	Standard Practice for Commercial Packaging
CJCSI 6510.01F	Information Assurance (IA) and Support to Computer Network Defense (CND)
CJCSI 6211.02D	Defense Information Systems Network (DISN) Responsibilities
CJCSI 6212.01E	Interoperability and Supportability of Information Technology and National Security Systems
CJCSI 6215.01C	Policy for Department of Defense (DoD)Voice Networks with Real Time Services (RTS)
CJCSI 6130.01F	Master Positioning, Navigation, and Timing Plan
DoD 5000.2	Operation of the Defense Acquisition System
DOD 8420.01	Commercial Wireless Local-Area Network (WLAN) Devices, Systems, And Technologies, November 3, 2017
DoDI 8100.04	Unified Capabilities
DoDI 8500.01	Cybersecurity
DoDI 8510.01	Risk Management Framework for Information Technology
DoDI 5000.64	Accountability and Management of DoD Equipment and other Accountable Property
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields
DoDI 3020.26P	Department of Defense Headquarters Continuity Plan (U)
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields
DoDI 5400.16	DoD Privacy Impact Assessment (PIA) Guidance
DoDI 4140.67	DoD Counterfeit Prevention Policy
DoDI 4161.02	Accountability and Management of Government Contract Property
DODI 8010.01	Department Of Defense Information Network (DODIN) Transport
DoDI 8320.04	Item Unique Identification Standards for Tangible Personal Property
DoDD 8500.01E	Information Assurance, Mission Assurance Category
DoDD 8500.2	Information Assurance Implementation
DoDD 5000.01	The Defense Acquisition System
UCR 2013	Unified Capabilities Requirements 2013 (UCR 2013) w/CH 2
UFC 1-300-08	Criteria for Transfer and Acceptance of DoD Real Property w/CH 2
UFC 3-301-01	Structural Engineering w/CH 3
UFC 3-310-04	Seismic Design of Buildings
UFC 3-501-01	Electrical Engineering

Publication	Short Title
UFC 3-520-05	Stationary Battery Areas w/CH 1
UFC 3-520-01	Interior Electrical Systems
UFC 3-575-01	Lightning and Static Electricity Protection Systems
UFC 3-580-01	Telecommunications Interior Infrastructure Planning and Design
UFC 3-580-10	Navy and Marine Corps Intranet (NMCI) Standard Construction Practices
UFC 3-600-01	Fire Protection Engineering for Facilities Change 1
UFC 4-021-02	Electronic Security Systems
UFC 2000 Article 64	Stationary Lead-Acid Battery Systems
UID Guide Version 2.5	Assuring Valuation, Accountability and Control of Government Property
USAISEC – I3A, I3MP	Fort Detrick Engineering Directorate, Technical Guide for I3A and I3MP Grounding and Bonding
USAISEC – I3MP	Fort Detrick Engineering Directorate, Technical Guide for Installation Information Infrastructure Modernization Program (I3MP)
USAISEC – I3A	Technical Criteria for the Installation Information Infrastructure Architecture (I3A)
USAISEC - SIPRNet	Secret Internet Protocol Router Network (SIPRNet) Technical Implementation Criteria
USAISEC, TR No. AMSEL-IE-IS 08014	Enterprise Systems Engineering Directorate, I3MP Guide for Facilities Requirements of Core Communications Nodes
USAISEC, TR No. AMSEL-IE-TI 09-001-7A	United States Army Information Systems Engineering Command (USAISEC) Outside Plant Design and Performance Requirements (OSPDPR)
MARADMIN 639/08	USMC CS Vulnerability Management (CSVM) Program
MCBUL 5239	Marine Corps Certification And Accreditation Program
MCO 5239.1	Marine Corps Information Assurance Program (MCIAP)
MCBUL 5234.15B	Marine Corps Enterprise Network Microsoft Computer Operating Systems Directive For Windows 10. Server 2012 and Exchange 2013
NAVMC 5100.1	Marine Corps Operational Safety and Health Program
SECNAVINST 5000.2	Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System

# 7.4 INDUSTRY STANDARDS AND REFERNCES

Publication	Short Title
ANSI/EIA 310-D	Cabinets, Racks, Panels, and Associated Equipment
ANSI/TIA 606-C	Administration Standard for Commercial Telecommunications Infrastructure
ANSI/TIA 568.0-D	Generic Telecommunications Cabling for Customer Premises
ANSI/TIA 606-C	Administration Standard for Telecommunications Infrastructure
ANSI/TIA 569-D	Telecommunications Pathways and Spaces
ANSI/TIA 942-B	Data Center Cabling Standard
ANSI/TIA-568.3-D	Optical Fiber Cabling Components
ANSI/TIA- 455-133-A	Measurement of Fiber or Cable Length Using an OTDR
ANSI/TIA/EIA-455-8-2000	Measurement Methods and Test Procedures – Attenuation OTDR
ANSI J-STD -607-C w/CH 1	Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications
ANSI Z535.4	Product Safety Signs and Labels
ANSI/BICSI 002	Data Center Design and Implementation Best Practices
ANSI/HFES 100	Human Factors Engineering of Computer Workstations
ANSI/ISEA Z358.1	American National Standard for Emergency Eyewash and Shower Equipment
ANSI/IEEE 142	Recommended Practices for Grounding of Industrial and Commercial Power Systems
ANSI/IEEE C2	National Electrical Safety Code (NESC)
IEEE 802.3	Standard for Ethernet
IEEE 802.3at	IEEE Standard for Information technology - Local and metropolitan area networks - Specific requirements - Part 3: CSMA/CD Access Method and Physical Layer Specifications Amendment 3: Data Terminal Equipment (DTE) Power via the Media Dependent Interface (MDI) Enhancements
IEEE 802.3af	IEEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Data Terminal Equipment (DTE) Power Via Media Dependent Interface (MDI)
IEEE 802.1Q	Virtual Local Area Networks (LANs)
IEEE 802.1X	Port-based Network Access Control (PNAC)
IEEE 802.3ab	1000BASE-T Gigabit Ethernet

Publication	Short Title
IEEE 802.3z	Gigabit Ethernet Over Optical Fiber and Shielded Twisted
	Pair (STP)
IEEE 802.3ae	10 Gigabit Ethernet (10 GbE)
IEEE 802.1w	Rapid Reconfiguration of Spanning Tree
IEEE 802.1s	Multiple Spanning Trees
IEEE 802.3ba	40/100 Gigabit Ethernet
IEEE RFC7348	Virtual eXtensible Local Area Network (VXLAN)
IEEE 802.11	IEEE Standard for Information Technology - Telecommunications and information exchange between systems Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications
IEEE 1100	IEEE Recommended Practice for Powering and Grounding Electronic Equipment. (IEEE Emerald Book)
IEEE 1106	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications
IEEE 1187	IEEE Recommended Practice for Installation Design and Installation of Valve-Regulated Lead-Acid Storage Batteries for Stationary Applications
IEEE 1188	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications
IEEE 1189	IEEE Guide for Selection of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications
IEEE 1220	IEEE Application and Management of the Systems Engineering Process
IEEE 1471	Recommended Practice for Architecture Description of Software Intensive Systems
IEEE 15288.2	Standard for Technical Reviews and Audits on Defense Programs
MIL-STD 31000 Rev. C	Technical Data Packages
ASME Y14.100	Engineering Drawing Practices
ASME Y14.24	Types and Applications of Engineering Drawings
ASME Y14.35M	Revision of Engineering Drawings and Associated Documents
ASME Y14.34M	Associated Lists
IETF RFC 2819	Remote Network Monitoring Management Information Base
IETF RFC 3261	SIP: Session Initiation Protocol

Publication	Short Title
IETF RFC 3410	Introduction and Applicability Statements for Internet-Standard Management Framework
IETF RFC 3418	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
IETF RFC 4346	The Transport Layer Security (TLS) Protocol, Version 1.1
IETF RFC 5709	OSPFv2 HMAC-SHA Cryptographic Authentication
IETF RFC 5798	Virtual Router Redundancy Protocol (VRRP) Version 3 for IPv4 and IPv6
IETF RFC 5905 v4	Network Time Protocol Version 4: Protocol and Algorithms Specification
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)
NFPA 1	Fire Code
NFPA 70	National Electrical Code
NFPA 70E	Standard for Electrical Safety in the Workplace
NFPA 72	National Fire Alarm and Signaling Code
NFPA 75	Standard for the Protection of Information Technology Equipment
NFPA 76	Stationary Lead-Acid Batteries
NFPA 101	Life Safety Code
NFPA 110	Standard for Emergency and Standby Power Systems
NFPA 780	Standard for the Installation of Lightning Protection Systems
NFPA 2001	Standard on Clean Agent Fire Extinguishing Systems
GR-513-CORE	Power Requirements in Telecommunications Plants
GR-1275-CORE	Central Office/Network Environment Equipment Installation/Removal Generic Requirements
GR 1502-CORE	Central Office/Network Environment Detail Engineering Generic Requirements
GR-3160-CORE-001	Generic Requirements for Telecommunications Data Center Equipment and Space, Jul 2013
UL 96A	Standard for Installation Requirements for Lightning Protection Systems
UL 467	Grounding and Bonding Equipment
UL 497	Standard for Protectors for Paired-Conductor Communications Circuits
UL 497A	Standard for Secondary Protectors for Communications Circuits
UL 497B	Standard for Protectors for Data Communications and Fire- Alarm Circuits
UL 1449	Standard for Surge Protective Devices

Publication	Short Title
EIA-625	Requirements for Handling Electrostatic Discharge- Sensitive (ESDS) Device
IFC	International Fire Code
EPA 40 CFR	Protection of Environment: Hazardous Material Inventory and Reporting, Spill Control, Spill Reporting, and Disposal
ISO/IEC/IEEE 8802-15-4	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 15-4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) specifications for low-rate Wireless Personal Area Networks (WPANs)
ITU-T G.655	Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
ITU-TG.709/Y1331	Interfaces for Optical Transport Network.
ITU-TG.798	Characteristics of Optical Transport Network Hierarchy
ITU-TG 872	Architecture of Optical Transport Networks
ITU-TG 873.1	Optical Transport Network Linear Protection.
ITU-G.694.1	Spectral grids for WDM applications: DWDM Frequency Grid
ITU-G.692.2	Amplified multichannel dense wavelength division multiplexing applications with single channel optical interfaces
LPI 175	Standard of Practice for the Design - Installation - Inspection of Lightning Protection Systems

# 8 APPLICABLE PUBLICATIONS (CURRENT EDITIONS)

The following documents apply to this Performance Specification. In the event of conflict between the applicable documents and this PWS, the PWS shall take precedence. All documents cited as compliance documents shall be considered as guidance only. Nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained. Appendix A - MCB Quantico – Site Specific Equipment provides a listing of the MCB Quantico existing nodes and equipment per site.

Appendix	Document/Reference	Purpose
A	Site Specific Equipment	Provides a listing of the MCB Quantico existing nodes and equipment per site.
В	NCI Systems Engineering Plan (SEP)	Describes the Government's systems engineering process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
С	NCI Test and Evaluation Management Plan	Describes the Government's test and evaluation process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
D	PM N&I Configuration Management Plan	Describes the Government's configuration management process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
Е	NCI Risk Management Plan	Describes the Government's risk management process.  The Contractor is expected to have a similar effort that integrates with the Government's risk reporting process.
F	BTI Life-Cycle Sustainment Plan (LCSP)	Describes the Government's sustainment process.
G	BTI Item Unique Identification (IUID) Plan	Describes the Government's equipment accountability requirements and process.
Н	PM N&I Programmatic Environmental, Safety, and Occupational Health Evaluation (PESHE)	Describes the Government's Environmental, Safety, and Occupational Health (ESOH) risk management approach (strategy, processes, and procedures) to include the integration of ESOH considerations in the acquisition and systems engineering processes.
I	Quality Assurance Surveillance Plan (QASP)	Describes the method by which the Government will monitor the Contractor's overall performance. The Contractor is expected to satisfy all the requirements of the contract by leveraging the surveillance procedures and methodologies established the QASP.
J	NCI BAN Reference Architecture	
K	NCI UC Reference Architecture	
L	NCI Network Power Reference Architecture	

#### 8.1 GENERAL

The contractor shall develop an engineering design to deliver a turnkey solution that conforms to all the performance requirements specifications in this section of the PWS. The design and operation of the solution is governed by the NGEN Capability Production Document (CPD) and the BTI Statement of Need (SON) and associated Letters of Clarification (LOC). These governing documents include Key Performance Parameters (KPP) which must be maintained throughout the modernization of the communication infrastructure to be performed at MCB Quantico, and are the foundation of the systems design characteristics. Those KPPs are identified in Section 8.1.1. Additional system and subsystem specifications are identified sections 8.2 and 8.3. Specifications governing Site Preparation and Network Power are provided in section 8.4.

#### 8.1.1 SYSTEM-WIDE KEY PERFORMANCE PARAMETERS

Performance Objective	Performance Threshold	Method of Surveillance
KPP-1	Components shall be JITC compliant.	Inspection
KPP-2	The system(s) shall have an operational availability of 99.999%.	Analysis
KPP-3	The system shall have a growth capacity of 25% to support the increase in users without an equipment replacement.	Analysis
KPP-4	Installations with geographically separate Points of Presence (PoP) shall have redundant UC and BAN equipment and services at each CN connected in a split core configuration mirroring the transport boundary.	Analysis

#### 8.2 UNIFIED COMMUNICATIONS SYSTEM

The Regional UC solution shall provide business voice capability to those locations where the solution will be deployed. MCB Quantico shall include all NIPRNet users on MCB Quantico The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911) services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

# 8.2.1 VOICE EQUIPMENT INSTALLATION AND CONFIGURATION

Delivery of voice and data services to the end-user shall be provided over a single physical infrastructure connection (port) at the end-user workstation. Physical connection of the end-user devices in series via the phone set. Logical connection for voice and data services shall be accomplished via Virtual Local Area Network (VLANs) or Software-Defined Network (SDN) virtual network.

Each new line module and gateway shall be fully wired to the MDF and equipped with all required common control and power cards, and connected to the assigned Local Session Controllers (LSCs). The contractor shall EFIST and make operational any new cards required to support a mixture of

analog. The contractor shall provide one analog gateway per DN and 8,000 knowledge workers and associated hardware. The contractor shall furnish and install equipment blocks, vertical frames, cables, Digital Cross-Connect (DSX) panels, etc., to terminate the equipped and wired capacity onto the horizontal side of the MDF or cross-connect. The contractor shall coordinate placement of equipment blocks with the TSO. The contractor shall test all endpoints after installation is complete.

# 8.2.2 EQUIPPED SUBSCRIBER PORT CAPACITY

The equipped subscriber port capacity shall be fully licensed, assigned, and activated at the time of cutover. Equipped line cards shall be distributed evenly across all media gateway shelves and line modules to prevent an outage of ports of the same type in the same workspace in the event of hardware failure. The contractor shall build temporary subscriber test lines of all equipped types on each line card module or drawer for testing equipment dial tone during System Acceptance Test (SAT).

## 8.2.3 WIRED SUBSCRIBER PORT CAPACITY

The wired subscriber port capacity shall be provided as pre-wired hardware (i.e., shelves, drawers, common control circuit packs, etc.) and have the ability to be activated only through the use of basic switch translations and the installation of subscriber port modules and circuit packs.

#### 8.2.4 REPLACEMENT PHONE SETS

The contractor shall provide replacement phone sets at the time of systems cutover. The replacements are provided to support the operations and maintenance of the voice network after Government acceptance. The quantity of replacement phone sets to be delivered shall be 8,000.

# 8.2.5 KEY SYSTEMS ATTRITBUTES

# 8.2.5.1 REGIONAL UC SYSTEM

Performance Objective	Performance	Method of Surveillance
UC-1	The Regional UC system shall provide IP and analog voice services to each end-user on all Installations within the region.	Inspection
UC-2	The Regional UC shall provide the ability to call between regional end-users without using the softswitch backbone.	Analysis
UC-3	Voice services include business voice, voice conferencing, voice mail, and unified messaging.	Inspection
UC-4	The UC system shall have a Telecommunications Management System (TMS) that supports all the Installations within the region.	Inspection
UC-5	Support the Differentiated Service Code Points (DSCP) markings to implement QoS/CoS.	Inspection
UC-6	Provide native audio Mean Opinion Score (MOS) of 3.8, at a minimum, IAW the Telecommunications Industry Association (TIA) Telecommunications – IP Telephony Equipment – Voice Quality Recommendations for IP Telephony (TSB-116-A).	Inspection

# **8.2.6** MAJOR FUNCTIONAL REQUIREMENT

# 8.2.6.1 LOCAL SESSION CONTROLLER

Performance Objective	Performance	Method of Surveillance
LSC-1	A UC system shall consist of LSCs and Media Gateways as required at each B/P/C/S.	Inspection
LSC-2	LSCs installed at each Installation as defined above shall conform to the requirements for Assured Services Core Session Controller as defined in the UCR 2013 w/Change 2.	Inspection
LSC-3	Each LSC shall interface with the other LSCs in its region in a coordinated cluster to provide full failover capability across Installations.	Inspection
LSC-4	Each LSC shall provide local survivability in the event DISN connectivity is lost.	Inspection
LSC-5	Each LSC shall support local session management when in a disconnected state.	Inspection
LSC-6	Each LSC shall support on Base E911/NG911 routing to the PSAP or ERC, via existing Installation infrastructure.	Inspection
LSC-7	The UC systems shall provide both DSN and PSTN Directory Number assignments for each subscriber.	Inspection

Performance Objective	Performance	Method of Surveillance
LSC-8	Automatic Call Distribution (ACD) shall be provided at the region.	Inspection
LSC-9	Supported Users can utilize softphones through secure VPN from any remote location.	Inspection

# 8.2.6.2 SESSION BORDER CONTROLLER

Performance Objective	Performance	Method of Surveillance
SBC-1	SBCs shall be co-located and configured in a redundancy group.	Inspection

# 8.2.6.3 TELECOMMUNICATIONS MANAGEMENT SYSTEM

Performance Objective	Performance	Method of Surveillance
TMS-1	The TMS will be located at MCB Quantico.	Inspection
TMS-2	The TMS shall have a direct interface to Remedy for asset tracking.	Inspection

# 8.2.6.4 CUSTOMER SERVICE SUPPORT APPLICATION

Performance Objective	Performance	Method of Surveillance
CSSA-1	Customer Service Support Application (CSSA) shall be provided at the region.	Inspection
CSSA-2	CSSA shall provide call routing via Interactive Voice Recognitions (IVR) for management, administration features.	Inspection
CSSA-3	CSSA shall support 400 agents.	Inspection
CSSA-4	CSSA shall have a built in "heat map" to allow scheduling during peak usage vice time of day.	Inspection

#### 8.3 BASE AREA NETWORK

The BAN at MCB Quantico shall be developed in accordance with the reference architecture shown in Figure 2 or Figure 3 and interface with the MCEN Core Switches. The BAN consists of DNs and Edge Access Devices logically connected as depicted in Figure 2 or Figure 3. A DWDM and PON system shall be EFIST'd. They shall provide connectivity between the core nodes and the area distribution nodes. Connectivity to the end-user will be accomplished over traditional Ethernet switches and Edge Access Devices or Optical Network Terminals (ONT) located in EUBs. The BAN shall satisfy all the KSA and the Major Functional Requirements identified the following sections.

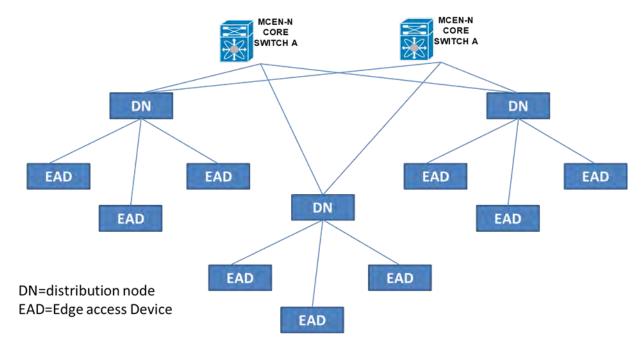


Figure 2 – BAN Reference Architecture

## 8.3.1 KEY SYSTEMS ATTRITBUTES

#### 8.3.1.1 Base Area Network

Performance Objective	Performance	Method of Surveillance
BAN-1	Voice, video and data shall be converged on the single installation BAN.	Inspection
BAN-2	The BAN shall support multi-tenancy on the single installation infrastructure.	Inspection
BAN-3	The BAN shall be operated from a single management system executed from a centralized Network Operation Center (NOC) on MCB Quantico.	Inspection
BAN-4	The BAN shall operate within the constraints of the Installation Gateway.	Inspection

# 8.3.2 MAJOR FUNCTIONAL REQUIREMENT

## 8.3.2.1 WAVELENGTH DIVISION MULTIPLEXING

The Optical Transport System (OTS) for the Backbone Transport shall be comprised primarily of DWDM technology to include all equipment and components to make a complete and functional Wave Selectable Switch (WSS) Reconfigurable Optical Add/Drop Multiplexers (ROADMs) nodal network elements. The OTS may include Course Wavelength Division Multiplexing (CWDM) technology in those instances in which a point-to-point connection is required between nodes with limited circuit requirements such as a linear spur to a node in a remote location or Installations that have two CNs, only. The contractor shall leverage existing optical fiber to provide a full or partial mesh topology with no single point of failure.

Performance Objective	Performance	Method of Surveillance
WDM-1	The WDM shall provide sufficient network degrees at each node to support the topology plus one spare degree.	Inspection
WDM-2	The WDM shall provide an integrated wave selectable switch Reconfigurable Optical Add/drop Multiplexer (ROADM) to support all the nodes.	Demonstration
WDM-3	Each degree shall transmit a minimum of 40G wavelengths on the initial configuration.	Test
WDM-4	The WDM network shall be upgradable to 200G and 400G wavelengths without removing the existing hardware suite (circuit card replacement is acceptable) (Objective).	Inspection
WDM-5	Path protection shall be implemented to provide high availability to each node.	Inspection

## 8.3.2.2 PASSIVE OPTICAL NETWORK (PON)

A PON network is a converged transport schema that is designed to carry multiple services such as VoIP, Data, IP Video, and Radio Frequency (RF) Video. The common PON operational framework technologies in use are Ethernet PON (EPON), Broadband PON (BPON) and Gigabit PON (GPON). GPON conforms to the ITU T G984 series (G.984.1 through G.984.7) and provides bit rates above 1 Gbps. EPON conforms to the IEEE 802.3ah and 802.3av specifications with options for 1/1 Gbps 10/1 Gbps and 10/10 Gbps.

At a high level, a PON consists of a head-end device called an Optical Line Terminal (OLT). The OLT may be deployed at the Distribution (e.g., Main Communication Node or Area Distribution Node), and Access (e.g., End User Building) Layers. End user endpoints are equipped with ONTs that provide Ethernet, 2-wire analog Plain Old Telephone Service (POTS), and even RF video. As many as 64 (and in some cases more) ONTs connect to a PON port via a single, single mode fiber whose optical signals are combined at a passive splitter. A PON utilizes Wavelength Division Multiplexing (WDM), using

one wavelength for downstream traffic and another for upstream traffic across one single, single-mode fiber optic cable. The PON specifications provide downstream traffic to be transmitted over a single fiber on the 1490 nanometer (nm) wavelength and upstream traffic to be transmitted at 1310 nm. A third 1550 nm band is allocated for overlay services, in this case, RF (analog) video.

In PON, power to the ONT is not provided via the fiber network. If power would be needed, it is provided via copper (which could be included with fiber in the network cable). Power to the ONT can be deployed in two ways, local and remote. Remote power can be provided as centralized or distributed DC plants. Centralized DC plant requires NEC Class 1 compliant cabling while Distributed DC plant requires NEC Class 2 compliant cabling.

The distributed remote power is provided by the power unit installed at the communication closet. This enables the PDU to provide power to the desktop for the ONTs using existing copper cabling that had previously been used to provide Ethernet signal to the desktop. Since this unit is modular, it can be expanded as the needs of the zone grows. This PDU must be able to provide the proper wattage to power not only for the ONT, but also the Power over Ethernet (PoE) powered devices connected to the ONT. If existing catX cables are not available, then independent x/2 cables or composite fiber and copper pair cables can be used.

Figure 3 displays PON Connectivity in the DoD operational framework, and shows a typical installation utilizing the OLT in the Distribution (ADN) and Access (EUB) Layers of the DoD UC model.

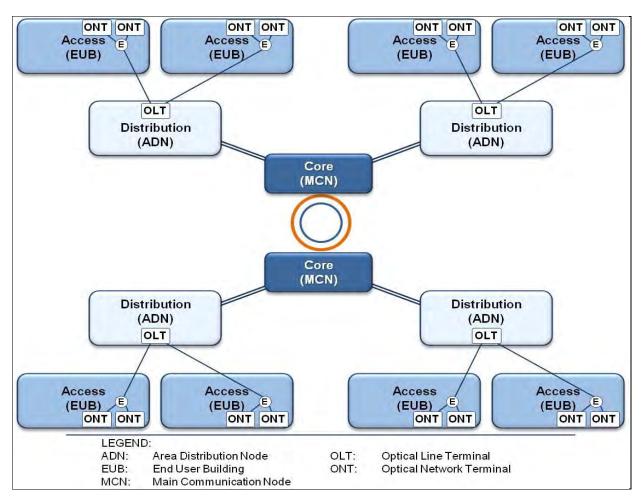


Figure 3-PON Reference Architecture

Performance Objective	Standard	Performance	Method of Surveillance
REQ001	N/A	To ensure Quality of Service (QoS), all NCI materiel solutions must provide Differentiated Services mechanisms.	N/A
	UCR EDG- 000160	The system shall provide Differentiated Services mechanisms to ensure QoS	Analysis
	Derived	The system shall provide different priority levels for users.	Analysis
	Derived	The system shall provide different priority levels for data flows.	Analysis
	UCR EDG- 000090	The Core and Distribution products shall be capable of accepting any packet tagged with a DSCP value (0-63) on an ingress port and reassign that packet to any new DSCP value (0-63)	Analysis

Performance Objective	Standard	Performance	Method of Surveillance
	Derived	Passive Optical Network shall be capable of supporting the prioritization of aggregate service classes with queuing. Queuing may be supported as Layer 2 or Layer 3 class of service (CoS)	Analysis
REQ002	N/A	Support network "slices" in campus/base environments, which enable IT managers to segment the network for specific needs.	N/A
	Derived	The solution shall support multi-tenant network services	Analysis
	Derived	The solution shall support the capability of varying agencies communicating with one another, without mixing traffic flows	Analysis
REQ003	N/A	Support Dynamic Bandwidth Allocation and Throttling, which enable IT managers to better manage the SLA.	N/A
	Derived	The solution shall support Dynamic Bandwidth Allocation and Throttling	Demonstration
REQ004	N/A	Provide support of standard protocols to build a PON network infrastructure – NNI Interface	N/A
	Derived	The solution shall support Virtual Local Area Network (VLAN)	Demonstration
	UCR EDG- 000410	The solution shall support 1000 Mbps IAW IEEE 802.3z for the NNI interface	Analysis
	UCR EDG- 000600	The solution shall support Rapid Configuration of Spanning Tree IAW IEEE 802.1w	Analysis
	Derived	The solution shall support Link Aggregation IAW IEEE 802.1AX (formerly 802.3ad)	Analysis
REQ005	N/A	Provide support of standard protocols to build a PON network infrastructure – OLT to PON Interface	N/A
	UCR EDG- 000610	The PON system shall provide one of the following PON (OLT-ONT) technologies: a. GPON IAW G.984 series (G.984.1 through G.984.7). b. EPON IAW 802.3ah. (1 Gbps). c. GEPON IAW 802.3av (10 Gbps)	Analysis
REQ006	N/A	Provide support of standard protocols to build a PON network infrastructure – UNI Interface	N/A

Performance Objective	Standard	Performance	Method of Surveillance
	Derived	The solution shall support Virtual Local Area Network (VLAN)	Demonstration
	UCR SEC- 001760	The solution shall support Port-Base Access Control IAW 802.1x	Analysis
	UCR SEC- 000080	The solution shall provide Link Layer Discover – Media Endpoint Discovery IAW ANSI TIA 1057	Analysis
	UCR SEC- 000080	The solution shall support Auto-negotiation IAW IEEE 802.3	Analysis
	Derived	The solution shall support Power over Ethernet (PoE) IAW either 802.3af-2003 or 802.3at-2009	Demonstration
REQ007	N/A	Provide support of standard management protocols	N/A
	Derived	The solution shall support SNMP V3	Demonstration
	UCR	The solution shall support Secure Shell	Demonstration
	EDG- 000820	Version 2 (SSHv2)	
	UCR EDG- 000840	The solution shall support HTTPS.	Demonstration
REQ008	N/A	Provide support for Voice Services	N/A
	UCR EDG- 000720	Latency - The PON shall have the capability to transport prioritized voice IP packets, media, and signaling end-to-end (E2E) across the PON System Under Test (SUT) as measured under congested conditions.	Test and Analysis
	UCR EDG- 000730	Jitter - The PON shall have the capability to transport prioritized voice IP packets across the PON SUT	Test and Analysis
	UCR EDG- 000740	Actual Packet Loss - The PON shall have the capability to transport prioritized IP packets across the PON SUT with packet loss not to exceed configured traffic engineered (queuing) parameters.	Test and Analysis
REQ009	N/A	Provide support for Data Services	N/A

Performance Objective	Standard	Standard Performance									
	UCR EDG- 000780	Latency - The PON shall have the capability to transport prioritized voice IP packets, media, and signaling end-to-end (E2E) across the PON System Under Test (SUT) as measured under congested conditions.	Test and Analysis								
	UCR EDG- 000790	Actual Packet Loss - The PON shall have the capability to transport prioritized IP packets across the PON SUT with packet loss not to exceed configured traffic engineered (queuing) parameters.	Test and Analysis								
REQ010	N/A	Support network "scaling" in campus/base environments, which enable IT managers to upgrade network infrastructure without service interruption.	N/A								
	Derived	The solution shall support add change move of the network device without the service interruption.	Demonstration								
	Derived	The solution shall support unique node upgrade in distribute systems without influence on the whole system.	Analysis								
REQ011	N/A	Provide redundancy in PON network.	N/A								
	UCR EDG- 000990	PON shall have no single point of failure that can cause an outage of more than 96 IP telephone subscribers.	Analysis								
	UCR EDG- 001020	PON shall support a Layer 2 Dynamic Rerouting protocol. Failover shall occur in no more than 1 second.	Demonstration								
REQ012	N/A	Provide centralized management and monitoring of the PON	N/A								
	Derived	The solution shall provide centralized management to leverage automated tools to provision, configure and manage PON network	Analysis								
	Derived	The solution shall abstract all of the complexities and dependencies and provide the user with a simple set of GUI tools to easily manage and operate the entire network.	Demonstration								
	Derived	The solution shall provide database backup and restore	Demonstration								

Performance Objective	Standard	Performance	Method of Surveillance
	UCR	The PON product shall support Fault,	Demonstration
	EDG-	Configuration, Accounting, Performance,	
	001110	and Security (FCAPS) Network	
		Management functions	
	Derived	The solution shall provide Secured process	Analysis
		for downloading and establishing software	•
		at the Network Element	

# **8.3.2.3** CORE AND DISTRIBUTION NODES

Performance Objective	Performance	Method of Surveillance					
ADN-1	Node elements shall have a minimum of 10 Gbps uplinks to the MCEN Core Switch.	Inspection					
ADN-2	There shall be two BAN core routers located in Bldg. 1999 and Bldg. 24204.	Inspection					
ADN-3	The BAN core routers shall be configured in active-active configuration.	Inspection					
ADN-4	The BAN core routers shall perform all BAN routing.	Inspection					
ADN-5	The BAN core routers shall support MPLS.	Inspection					

# 8.3.2.4 EDGE ACCESS DEVICE

Performance Objective	Performance	Method of Surveillance					
EAD-1	Edge Access Devices shall have a minimum of 10 Gbps uplink to the DN element.	Inspection					
EAD-2	Edge Access Devices shall have uplink diversity and redundancy when allowed by the outside plant.	Inspection					
EAD-3	Edge Access Devices shall have a minimum of 10 Mbps end-user interfaces.	Inspection					
EAD-4	Edge Access Devices shall have a minimum 10 Gbps interface to the Wireless Access Point (WAP).	Inspection					
EAD-5	Edge Access Devices shall support POE+.	Inspection					

# **8.4 SITE PREPARATION**

Site preparation will be provided on an as needed basis at CNs and DNs nodes only.

#### 8.4.1 KEY SYSTEMS ATTRITBUTES

Performance Objective	Performance	Method of Surveillance
SP-1	The Network Power System shall provide sufficient uninterruptable AC and DC power to support all IT systems and components located in the facility.	Analysis
SP-2	The Network Power System shall provide sufficient transitional power in the event of loss of shore/commercial power until emergency backup comes on-line.	Demonstration
SP-3	Auxiliary infrastructure shall be installed IAW with all applicable Unified Facilities Criteria.	Inspection

# 8.4.2 MAJOR FUNCTIONAL REQUIREMENT

## 8.4.2.1 NETWORK POWER SYSTEM

The contractor shall validate the power requirements at the VSS. If needed, the Government may request that the Contractor provide Network Power Systems at the Core and Distribution Nodes to support all the systems and subsystems delivered as a part of the proposed solution. This Network power systems shall include an AC connection to commercial or shore power, N+1 3-Phase AC UPS, Automatic Transfer Switch (ATS), self-testing network Emergency Power Off (EPO) switch, battery disconnect switch, and any necessary sub-panels, cabinet or rack power supply buss trackway and Power Distribution Units (PDUs).

Network Power Systems modernization (upgrade/replacement) will be provided on an as needed basis at Installations Core and Distribution Nodes only.

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Performance Objective	Performance	Method of Surveillance
NPS-1	All Network power panels and subpanels shall be 120/208 VAC, 3-phase, Y-connected, with separate neutral and ground conductors.	Inspection
NPS-2	Bonding of neutral and ground conductors shall be done in accordance with NFPA 70 and the NEC instruction regarding bonding of neutral to ground in a multi-panel system.	Inspection
NPS-3	AC distribution system wiring shall include a separate copper conductor marked as per NFPA 70 and the NEC instruction installed throughout all branch and feeder circuits.	Inspection
NPS-4	All network AC power panels feeding branch circuits shall be sized for not less than 25 percent growth in circuit breaker quantity.	Analysis

Performance Objective	Performance	Method of Surveillance
NPS-5	Circuit panels and circuit breakers shall not exceed 80% of the nameplate ampacity of the circuit breakers.	Inspection
NPS-6	All circuits for network equipment racks and cabinets shall be dedicated circuits.	Inspection
NPS-7	A self-testing Emergency Power Off switch shall be installed.	Demonstration

# 8.4.2.3 AC NETWORK POWER

Performance Objective	Performance	Method of Surveillance				
ACP-1	A N+1, 3-Phase AC UPS shall be sized to meet designed systems power capacity, inclusive of the designed system reserve capacity.	Analysis				
ACP-2	A 3-Phase UPS shall provide surge protection in a transformer-less topology and non-degenerative filtering for lighting strikes.	Inspection				
ACP-3	A 3-Phase UPS shall provide load fault detection and clearing.	Demonstration				
ACP-4	A 3-Phase UPS shall provide a harmonic reduction system to detect when harmonics, power factor or phase unbalance are out of limits and automatically corrects to the user-defined set point.	Demonstration				
ACP-5	A 3-Phase UPS shall have the capacity to house the batteries in the same cabinet as the UPS for CNs and DNs to save floor space.	Inspection				
ACP-6	A 3-Phase UPS shall have a three stage charging process that is capable of extending battery life by 50%.	Test				
ACP-7	A 3-Phase UPS shall provide advanced notification prior to battery failure.	Demonstration				
ACP-8	A 3-Phase UPS shall have a color touchscreen LCD interface.	Inspection				
ACP-9	A 3-Phase UPS shall have internal modularity.	Analysis				
ACP-10	A 3-Phase UPS shall have an internal maintenance bypass switch.	Inspection				
ACP-11	A 3-Phase UPS shall have a UL 924 certification for emergency lighting.	Inspection				
ACP-12	A 3-Phase UPS shall be serviceable thru the front of the cabinet. It shall have the ability to be put against the wall or in a corner.	Inspection				

Performance Objective	Performance	Method of Surveillance
ACP-13	A 3-Phase UPS shall be rated an Energy Star Qualified partner with the U.S. Environmental Protection Agency and the U.S. Department of Energy.	Inspection
AACP-14	A 3-Phase UPS shall provide 99% efficiency across the operating load range.	Test
ACP-15	A 3-Phase UPS shall provide double conversion efficiency at 97% or greater.	Test
ACP-16	A 3-Phase UPS shall be equipped with a quick glance from a distance system status, via green/yellow/red LED light panel.	Inspection
ACP-17	A 3-Phase UPS shall be equipped with power monitoring and reporting software that is compatible with HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU, and BACnet IP protocols.	Inspection
ACP-18	A 3-Phase UPS shall have a safety certification that complies with the UL 1778, UL 924 Emergency Lighting and Power.	Inspection

# 8.4.2.4 DIRECT CURRENT NETWORK POWER

Performance Objective	Performance	Method of Surveillance
DCP-1	In the event a network component chassis requires DC power, a stand-alone N+1 rack mounted rectifier shall be sized and installed in the same rack to provide the required DC power capacity for that singular chassis component.	Inspection

## 8.4.2.5 NETWORK POWER DISTRIBUTION SYSTEM

Performance Objective	Performance	Method of Surveillance
NPD-1	PDUs shall have a 3-phase 120/208 VAC four-pole modular track buss way electrical distribution system above each equipment row fed from a 3-Phase UPS.	Inspection
NPD-2	The PDU track buss way power system shall be rated for 225 amps and 600 volts with each equipment row fed from a separate breaker.	Inspection
NPD-3	Each installed PDU track buss way power system shall have metering capabilities for each phase that includes an automatic cycling display that display Voltage, Current, and Power Usage, at a minimum.	Demonstration
NPD-4	A plug-in unit containing a 3-phase, 30-amp circuit breaker and a receptacle or drop-down cord with receptacle shall be installed above each rack as required to accommodate the equipment rack PDU.	Inspection
NPD-5	Equipment racks and cabinets containing equipment with "A" and "B" AC power supplies shall have two (2) plug-in drops and two (2) PDUs provided.	Inspection
NPD-6	Equipment racks and cabinets containing only passive equipment (i.e., unpowered fiber optic patch panels) do not require power drops or PDUs.	Inspection
NPD-7	Each equipment rack or cabinet shall have a combination 120/208 VAC PDU.	Inspection
NPD-8	Each PDU shall have not less than nine (9) IEC 320 standard C13 receptacles.	Inspection
NPD-9	Each PDU shall have not less than three (3) IEC 320 standard C19 receptacles.	Inspection
NPD-10	Each PDU shall have not less than twelve (12) NEMA 5-20 receptacles.	Inspection
NPD-11	Each phase in the PDU shall have a dedicated breaker.	Inspection
NPD-12	Equipment racks and cabinets containing equipment with "A" and "B" power supplies shall have two PDUs provided.	Inspection

8.4.2.6 NETWORK EMERGENCY BACKUP POWER SYSTEM

Performance Objective	Performance	Method of Surveillance
EBP-1	In the event commercial or shore power is interrupted, the 3-Phase UPS batteries shall be sized to provide uninterruptable, transitional power. A fully functional generator will be provided by the Government (B/P/C/S) as the sole source of emergency backup power.	Inspection / Demonstration
EBP-2	The batteries shall conform to the Unified Facilities Criteria (UFC) 3-520-05 and the UFC 3-520-01.	Inspection
EBP-3	The battery system shall use Valve Regulated Lead Acid (VRLA) batteries unless Lithium Ion batteries are approved by the Government.	Inspection
EBP-4	VRLA batteries shall be equipped with a battery management system to manage the battery rest and charge cycles to extend their life.	Test
EBP-5	VRLA batteries systems shall be monitored for cell failure.	Test
EBP-6	A keyed battery disconnect switch shall be installed at the exterior of the building adjacent to the entrance or in a location prescribed by the AHJ.	Inspection

## 8.4.3 AUXILLARY INFRASTRUCTURE

The contractor shall provide auxiliary infrastructure at the CNs and DNs to support the systems and subsystems delivered as a part of the proposed solution as defined by the Site Specific Requirements. Auxiliary infrastructure consists of the following: equipment racks/cabinets, bracing, seismic bracing, patch panels, ladder rack, wire cable tray, , cabling, cable management system, cable testing, bonding, and grounding.

8.4.3.1 MDF, IDF, AND BACKBOARDS

Performance Objective	Performance	Method of Surveillance
MDF-1	All additional or newly installed MDF, IDF and Backboards shall comply with the Installation Information Infrastructure Architecture (I3A).	Inspection

# 8.4.3.2 CABINETS, RACKS, AND PATCH PANELS

Performance Objective	Performance	Method of Surveillance
CRP-1	Equipment cabinets and rack mounting, dimensions, doors separation or clearances, load rating, cooling fans, spare capacities, horizontal and vertical cable management, strain relief, shall conform to UFC 3-580-1.	Inspection
CRP-2	Equipment cabinets shall have a minimum load rating of 200 pounds.	Inspection / Analysis
CRP-3	Equipment cabinets shall be equipped with a lockable, removable mesh doors.	Inspection
CRP-4	Equipment cabinets shall be equipped with factory knockouts.	Inspection
CRP-5	Equipment cabinets and racks shall have an angle support and a minimum of 46 Rack Units (RUs) and be equipped with an integrated, electrically isolated ground bar.	Inspection
CRP-6	Equipment cabinets and racks shall be black in color unless otherwise specified.	Inspection
CRP-7	Patch panels shall be provided and conform to the UFC 3-580-1.	Inspection
CRP-8	Patch panels shall be installed in, or adjacent to, the equipment racks or cabinets housing BAN equipment.	Inspection
CRP-9	TIA/EIA 568A duplex connectors on 19-inch rack-mounted panels shall be used unless otherwise directed.	Inspection
CRP-10	Fiber Optic Patch Panels (FOPPs) shall not exceed four RUs.	Inspection
CRP-11	All fiber-optic patch panels shall utilize pre-terminated tailed 12-strand closet connector housing cassette with SC duplex (unless specified otherwise) UPC ceramic connectors.	Inspection
CRP-12	Single-mode and multi-mode fiber optic cables shall be terminated on separate fiber optic patch panels.	Inspection
CRP-13	Patch panel labeling shall conform to TIA/EIA 606-A.	Inspection
CRP-14	Patch cables of varying lengths matching the patch panel they are connecting to shall be provided.	Inspection
CRP-15	Provide bend-insensitive, pre-terminated patch cords capable of being locked into place to avoid accidental disruption of services or tampering.	Inspection
CRP-16	CAT 6 copper cables shall terminate on EIA 568A 2-RU CAT 6 Certified Output Protection Protocol (COPP) Patch Panels.	Inspection
CRP-17	Copper Patch Cables: Copper patch cables shall be 4-pair, 24 American Wire Gauge (AWG) stranded UTP cable, rated for CAT6, with 8-pin modular connectors at each end.	Inspection

Performance Objective	Performance	Method of Surveillance
CRP-18	Copper patch panels shall consist of eight-position modular jacks with rear-mounted, type 110 insulation displacement connectors, category-rated for the UTP system being installed and arranged in rows or columns on 19-inch rack-mounted panels. Nineteen-inch wall-mounted panels may be utilized when necessary.	Inspection
CRP-19	Each FOPP and COPP shall have horizontal cable management either built into it or as an independent management system.	Inspection
CRP-20	All ironwork, including frames, cabinets, racks, and cable ladder racks, shall be installed IAW local seismic zone requirements and manufacturers specifications.	Inspection
CRP-21	All ironwork including frames, cabinets, racks, and cable ladder racks shall be isolated from any wall (at the anchor point), floors (at the anchor point), or ceilings with approved isolating materials.	Inspection

# 8.4.3.3 LADDER, WIRE CABLE TRAY, CONDUITS, EMT, PULL, AND SPLICE BOXES

Performance Objective	Performance	Method of Surveillance
LDR-1	A single tier cable ladder or wire tray system shall be provided to support for signal cabling above all equipment, cabinets, racks and the MDF. The signal cabling shall be separated from the power cables by not less than 12 inches. The power cable conduit system shall be located above the signal tier of rack. The cable ladder rack system shall not contact any surface of any equipment cabinets/racks.	Inspection
LDR-2	Ladder, wire cable tray, conduits and EMT, pull and splice boxes dimensions, separation and clearances, fill depth, headroom, fill ratios, bend radius, shall conform to the UFC 3-580-01 and I3A.	Inspection
LDR-3	Pull boxes or splice boxes shall conform to the guidance in I3A 3.6.1.3 and Article 314.28 of the National Electrical Code 2008 (NFPA 70).	Inspection
LDR-4	Twelve-inch wide ladder rack shall be used unless otherwise required.	Inspection
LDR-5	The ladder rack system shall be installed to run the full length of the room and the perimeter of the room. Each perpendicular row shall be arranged over the top of the equipment racks.	Inspection
LDR-6	Plastic or composite wire ways designed for fiber optic cables are permissible.	Inspection

Performance Objective	Performance	Method of Surveillance
LDR-7	Copper cabling shall not be installed in any dedicated fiber optic wire ways.	Inspection

## 8.4.3.4 BONDING AND GROUNDING

Performance Objective	Performance	Method of Surveillance
GND-1	Metal cabinets, racks, raceways, ladders, cable trays, enclosures, frames, fittings, EMT, pull boxes, FOC and Copper cable armor, Outside Plant (OSP) Point Of Entry (POE), Building Entrance Terminals (BETs) and other metal noncurrent carrying parts that are able to serve as grounding conductors, with or without the use of supplementary equipment grounding conductors, shall be effectively bonded where necessary to ensure electrical continuity and the capacity to conduct safely any fault currents likely to be imposed on them.	Inspection
GND-2	All Bonding, Grounding, Testing and Labeling shall conform to the I3A, ANSI/TIA 607-C, IEEE 1100-2005 Emerald Book, MIL-STD-419A and MIL-STD-188 124B. NFPA 70, and ANSI TIA-942, TIA/EIA-569-B, NEC Article 250 and the UFC-3-580-01.	Inspection
GND-3	A 2-hole non-twisting, irreversible, circumferential compression fittings, with a sight inspection hole lug shall be used to connect all bonding conductors to the TMGB, TGB, cabinet, rack and cable ladders.	Inspection

## **8.4.3.5** FIRE STOP

Performance Objective	Performance	Method of Surveillance
FSP-1	Any existing or newly created pathway thru walls, ceiling or floors that are utilized shall conform to the fire stop requirements found within the UFC 3-580-01, NFPA70, NEC, I3A.	Inspection

# 8.4.3.6 ENVIRONMENTAL HAZARDS

Performance Objective	Performance	Method of Surveillance
OSH-1	The contractor shall perform limited asbestos abatement in support of minor-construction work under a non-construction contract IAW with established OSHA standards.	Inspection
OSH-2	The contractor shall be expected to take the appropriate safety precaution IAW with established OSHA standards to continue to perform work in support of minor-construction work under a non-construction contract when lead-based paint is present.	Inspection

## 8.4.3.7 FIBER AND COPPER CABLING

Performance Objective	Performance	Method of Surveillance
FBR-1	All fiber planned for use between the CN and DNs shall be characterized and if less than manufacturer's requirement the Government will be notified.	Inspection
FBR-2	Plenum cables shall be used in all plenum spaces IAW the NFPA 70, or as directed by the AHJ.	Inspection
FBR-3	OSP FOC or Copper cable that extends past the POE by 50 feet, it shall comply with the NFPA 70 Section 800.113.	Inspection
FBR-4	Cables and wiring between subsystems shall be clearly and permanently labeled and conform to the TIA/EIA-606-A.	Inspection

PWS MCB QUANTICO, VIRGINIA

# 8.5 EXISTING NODES AND EQUIPMENT

The existing nodes and network and voice equipment is provided in Table 5 and Table 6. There may be additional equipment found during the verification site survey.

Table 5 – Existing Nodes and Equipment – MCB Quantico

				Existing No	des and Equip	oment			
MCB Quantico	Core 0	ADN1	ADN2	ADN3	ADN4	ADN5	ADN6	ADN7	Russel Knox
	DCO	TBS	-	-	MCU	OCS	Upshur	Weapons	-
Building	1999	24204	3255	3300	2076	2189	26100	27282	27130C
Zone #	8	7	4	5	3	2	-	9	1
PBX	Nortel/Avaya SL100/CS2100 CM6	Tellabs Voice Gateway	-	Nortel RCC2	Nortel RCC2	Tellabs T1000	-	Nortel MGk9	-
Voice Firewall	Secure Logix	-	-	-	-	-	-	-	-
Voice Mail	Nortel	-	-	-	-	-	-	-	-
Conference Bridge	Nortel	-	-	-	-	-	-	-	-
SBC									
Gateways	Avaya G450	-	-	Avaya G450	Avaya G450	-	-	Avaya G450	-
MPLS Routers	JB-CE 1	JB-CE 2	-	-	-	-	-	-	-
SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	-	SONET Node	-
DWDM									
Data Distribution Router	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	-	-	-	-
ASLAN Router	Brocade	-	-	-	-	-	-	Brocade	-
GPON OLT	Tellabs 1150	Tellabs 1150	-	-	Tellabs 1150	-	-	Tellabs 1150	-
GPON ONTs - Qty	107	38	-	-	92	-	-	16	-
Data Access Switch - Qty	64	57	35	24	30	22	-	53	2

Table 6 – Existing Nodes and Equipment – Remote Sites

Existing Nodes and Equipment – Remote Sites										
Domoto Sitos	INHZ	PKWY	SCPA	BAND	BRRK	WNYZ	ANNZ			
Remote Sites	NCR	NCR	NCR	HQMC	HQMC	HQMC	HQMC			
Data Distribution Router	CISCO 3750		CISCO 3750	CISCO 3750	CISCO 3750	CISCO 2811 CISCO 2911 ES2	-			
ASLAN Router	=	=	=	=	=	-	-			
GPON OLT	-	-	-	-	-	-	-			
GPON ONTs - Qty	=	=	=	=	=	-	-			
Data Access Switch - Qty	8	5	1	6	10	5	4			

# APPENDIX A – MCB QUANTICO – SITE SPECIFIC EQUIPMENT

Attachment 1 provides the MCB Quantico existing nodes and equipment per site.

#### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

D. SYSTEM/ITEM E. CONTRACT/PR NO. MCB Quantico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE	
MCB Quantico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	
1. DATA ITEM NO. A001  2. TITLE OF DATA ITEM System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  3. SUBTITLE N/A	
A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	ES
a Contractor's Internal Unclassified Information System	ES
	ES
A AUTHORITY (F. C.	ES
4. AUTHORITY (Data Acquisition Document No.)  DI-MGMT-82247  5. CONTRACT REFERENCE  SOW, Section 5.2  6. REQUIRING OFFICE  USMC, MCSC	ES
7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION 14. DISTRIBUTION	ES
XX REQUIRED As Required As Required b. cop	
8 APP CODE 11 AS OF DATE 13. DATE OF SUBSEQUENT 2 ADDRESSES	Final
N/A D $N/A$ Submission $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Reg	1
16. REMARKS COR 0	1 0
Block 5: Contractor shall provide an SSP in accordance with NIST SP 800-171, indicating PCO 0	0 1
whether the Contractor has implemented the security requirements, plans to implement the PEO/PfM ISSM 0	0 1
security requirements, or that the requirement is not applicable. Attached to the SSP shall be APM 0	0 1
a populated POA&M with all outstanding findings discovered during the self-audit	1
describing compliance or non-compliance and plan of action(s) of the total list of security	
controls. This submission shall be upon award, on a quarterly basis or upon request.	
The same and the same and a specific	
Block 7: Inspection/acceptance requirements specified elsewhere in the contract.	
Block 9: DISTRIBUTION STATEMENT D: Distribution authorized to the Department of	
Defense and U.S. DoD contractors only. (Reason: Administrative or Operational Use)	
(Date of Determination: DDMMMYYYY). Other requests for this documentation shall be	
referred to:	
Marine Corps System Command	
Program Office	_
2200 Lester St	
Quantico, VA 22134	
Blocks 10-13: The Contractor shall deliver the initial SSP and POA&M (and appropriate	
extracts thereof) quarterly, or upon Program Management Offices request. The SSP will be	
reviewed for acceptance by the Government Program Management Office (PMO). The	
PMO shall be granted full access to validate the information in the Contractor's submission	
on an ad hoc basis without notice or upon replacement or rotation of the Government PM.	
Block 14: Notification of delivery shall be made to Stephen J. Magee, COR. Any further	
distribution beyond what's listed will be authorized by the Program Management Office	
(PMO). Email addresses for Distribution list POCs:	
COR: Stephen Magee, Stephen.j.magee@usmc.mil, 703-784-4986	
PCO: Brenda Edwards, Brenda.edwards@usmc.mil, 703-784-6541	
APfM Logistics: Darin Simmons, darin.simmons@usmc.mil, 703-432-5171	
PEO/PfM ISSM: Jeffrey Miller, Jeffrey.k.miller@usmc.mil, 703-784-6591	
Note: The Government Procuring Contracting Officer (PCO) does not require the formal	
deliverable, however the Letter of Transmittal should be sent to the PCO to document	
delivery notification and compliance with this CDRL. Deliver all copies via electronic	
media where feasible, otherwise deliver in hard copy.	
15. TOTAL → 0	1 3
G. PREPARED BY H. DATE I. APPROVED BY J. DATE	
Roger Asprer Stephen Magee	1020
ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 ASPRER.ROGER.O.1278925001 Disc. 2020/617 1652357 44000 Disc. 20	.020

17. PRICE GROUP

18. ESTIMATED

TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)										
	B. EXHIBIT	C. CATEGORY:	OTHER X							
000X, 000Y, 000Z	A F CONTRACT	T/DD NO								
D. SYSTEM/ITEM  MCB Quantico Modernization	E. CONTRAC n M67854	17PR NO. 1-20-C-XXXX	F. CONTRACTOR	chnology Trends	Group, LLC					
16. REMARKS (Continued)	ı		ı							
DD FORM 1423-1, FEB 2001				Reset	Page of_	Pages				

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item  ${\bf 4}$
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- **Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

#### FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

#### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

	Contracting Officer for th	e Contract/Pi	R No. IISTEA IN BIOCK									
A. CONTRACT L	INE ITEM NO. 00Y, 000Z	B. EXHIBI	T A		TEGORY:	отн	er X					
D. SYSTEM/ITEM		l I	E. CONTRACT			F. CONT			-			
	' iantico Modernizatio	'n	M67854-			1.00111	Technology Trends (	Group I	I C			
1. DATA ITEM NO.	2. TITLE OF DATA ITEM	11	14107034-	20-C-A	7171	3. SUBTITL						
		4: 6	_									
A002	Cyber Incident Re Contractor's Interr			on Svete	am	N/A						
	Acquisition Document No.	)	5. CONTRACT REF	ERENCE	tion 1.6.13		6. REQUIRING OFFICE	6. REQUIRING OFFICE USMC, MCSC				
	XXXX (see Appe								<i>'</i>			
7. DD 250 REQ XX	REQUIRED	10. FREQUE Δ c I	ncy Required	12. DAT	re of first sub As Require		14. DISTRIB	1				
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Marine Corps Sy	stem Command											
Program Name												
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Quantico, VA 22	2134											
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17. PRICE GROUP

18. ESTIMATED

TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)										
A. CONTRACT LINE ITEM NO.	B. EXHIB		C. CATEGORY:	m other X						
000X, 000Y, 000Z D. SYSTEM/ITEM	]	A CONTRACT								
MCB Quantico Modernization	on	E. CONTRACT M67854	-20-C-XXXX	F. CONTRACTO	к Technology Trends (	Group, LLC				
16. REMARKS (Continued)					23	17				
DD FORM 1423-1, FEB 2001	l				Reset	Page of	Pages			

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- $ltem\ 6.$  Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- **Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

#### FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

## **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), T215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be available to notwithstanding any other provision of law, no person shall be subject to any penalty for falling to comply with a collection of information if it does not display avaire that Valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:	1 OTHER			
D. SYSTEM/ITEM	E. CONTRAC		F. CONTRACTOR			
16. REMARKS (Continued)						
DD FORM 1423-1, FEB 20	01	<u> </u>		Page	of	Pages

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
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- **Item 4.** Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- **Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- $\label{lem:constraints} \textbf{Item 6.} \quad \text{Enter technical office responsible for ensuring adequacy of the data item.}$
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
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- **Item 14.** Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
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**DID: DI-MGMT-82247** 

#### **DATA ITEM DESCRIPTION**

Title: Contractor's Systems Security Plan and Associated Plans of Action to Implement NIST SP 800-171 on a Contractor's Internal Unclassified Information System

Number: DI-MGMT-82247 Approval Date: 20181031

AMSC Number: 9992 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: OSD-SO Project Number: MGMT-2018-049

**Applicable Forms: None** 

Use/relationship: This Data Item Description (DID) contains the data content, format, and intended use of the Contractor's system security plan (or extracts thereof), to include any associated plans of action, addressing the Contractor's internal unclassified information system(s). When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information - as defined in DFARS Clause 252.204-7012 - will be processed, stored, or transmitted on an unclassified information system that is owned, or operated by or for, the Contractor, the Contractor shall develop, document, and periodically update a system security plan(s), to include any associated plans of action, for the Contractor's internal unclassified information system in accordance with the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations. Security Requirement 3.12.4 of the NIST SP 800-171 requires that system security plans describe system boundaries, system environments of operation, how security requirements are implemented, and the relationships with or connections to other systems. Security Requirement 3.12.2 of the NIST SP 800-171 requires that plans of action describe how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's unclassified information system. The system security plan (or extracts thereof) and any associated plans of action may be used by the government as input to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). This DID contains the information that shall be conveyed within the system security plan and any associated plans of actions for the Contractor's internal unclassified information system. There is no prescribed format or specified level of detail for how that information is conveyed. There is no requirement for the government to approve the system security plan or any associated plans of action for the Contractor's internal unclassified information system, but the government may request that the Contractor submit the system security plan (or extracts thereof), and any associated plans of action, such that the government may review the Contractor's implementation of security requirements. When requested by the government, the submitted system security plan (or extracts thereof) and any associated plans of action for the Contractor's internal unclassified internal information system may: - Demonstrate to the government the Contractor's implementation or planned implementation of the security requirements for their internal unclassified information system, or

- Be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or

**DID: DI-MGMT-82247** 

operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). Requirements:

- 1. <u>Reference Documents</u>: The applicable issue of the documents cited herein, including development dates and dates of any applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format acceptable.
- 3. <u>Content</u>: The system security plan (or extracts thereof) shall include a description of system boundaries, system environments of operation, how security requirements are implemented or how organizations plan to meet the requirements, and the relationships with or connections to other systems. Any associated plans of action shall include a description how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's information system.
- 3.1. <u>Cover Page</u>: The cover page of the system security plan (or extracts thereof) and any associated plans of action shall identify the following information:
- 3.1.1. Title of the document (i.e., Systems Security Plan and Associated Plans of Action for [Name of Contractor's Internal Unclassified Information System])
  - 3.1.2. Company name
  - 3.1.3. Data Universal Numbering Systems (DUNS) Number
  - 3.1.4. Contract number(s) or other type of agreement
  - 3.1.5. Facility Commercial and Government Entity (CAGE) code(s)
  - 3.1.6. System that this System Security Plan and any associated Plans of Action addresses
  - 3.1.7. Date of latest revision
  - 3.1.8. All appropriate distribution and classification statements/markings
- 3.2. <u>System Identification</u>: The purpose of the system security plan shall be communicated in this section, to include a description of the function/purpose of the Contractor's internal unclassified information system(s)/network(s) that is (are) addressed in the plan.
- 3.3. <u>System Environment</u>: A detailed topology narrative and graphic shall be included that clearly depicts the Contractor's internal unclassified information system boundaries, system interconnections, and key components. This does not require depicting every device, but would include an instance of operating systems in use, virtual and physical servers (e.g., file, print, web, database, application), as well as any networked workstations, firewalls, routers, switches, copiers, printers, lab equipment, etc. If components of other systems that interconnect/interface with this system need to be shown on the diagram, denote the system boundaries by referencing the security plans or names and owners of the other system(s) in the diagram. Include or reference (e.g., to an inventory database or spreadsheet) a

#### **DID: DI-MGMT-82247**

complete hardware and software inventory, including make/model/version and maintenance responsibility.

- 3.4. Security Requirements: Describe how the Contractor addresses/will address security requirements in each of the following NIST SP 800-171 security requirement families (including basic and derived requirements) for protecting covered defense information in the Contractor's systems and organizations:
  - 3.4.1. Access Control (3.1.1 3.1.x)
  - 3.4.2. Awareness and Training (3.2.1 3.2.x)
  - 3.4.3. Audit and Accountability (3.3.1 3.3.x)
  - 3.4.4. Configuration Management (3.4.1 3.4.x)
  - 3.4.5. Identification and Authentication (3.5.1 3.5.x)
  - 3.4.6. Incident Response (3.6.1 3.6.x)
  - 3.4.7. Maintenance (3.7.1 3.7.x)
  - 3.4.8. Media Protection (3.8.1 3.8.x)
  - 3.4.9. Personnel Security (3.9.1 3.9.x)
  - 3.4.10. Physical Protection (3.10.1 3.10.x)
  - 3.4.11. Risk Assessment (3.11.1 3.11.x)
  - 3.4.12. Security Assessment (3.12.1 3.12.x)
  - 3.4.13. System and Communications Protection (3.13.1 3.13.x)
  - 3.4.14. System and Information Integrity (3.14.1 3.14.x)
- 3.5. <u>Plans of Action</u>: In accordance with Security Requirement 3.12.2, provide any plans of action developed to address how and when the Contractor will implement any security requirements not yet implemented, identify known deficiencies and vulnerabilities in the contractor's internal unclassified information system, how and when the Contractor will correct identified deficiencies and reduce or eliminate vulnerabilities in the Contractor's system.

DID: DI-SCRE-82258

#### **DATA ITEM DESCRIPTION**

Title: CONTRACTOR'S RECORD OF TIER 1 LEVEL SUPPLIERS RECEIVING/ DEVELOPING COVERED

**DEFENSE INFORMATION** 

Number: DI-SCRE-82258 Approval Date: 20190313

AMSC Number: 10008 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: RS Project Number: MGMT-2019-010

**Applicable Forms: None** 

**Use/relationship:** When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted on a tier 1 level supplier's internal unclassified information system. (DFARS Clause 252.204-7012 can be found at https://www.acq.osd.mil/dpap/dars/dfars/html/current/252204.htm)

- a. This Data Item Description (DID) contains the information that is required of the Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information. This information will be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned or operated by, or for, the contractor (i.e. contractor's internal unclassified information system). This information will:
- (1) Demonstrate to the government the Contractor's ability to restrict the dissemination of covered defense information specified in, or developed under, the contract to subcontractors that execute requirements that involve the covered defense information.
- (2) Demonstrate to the government the Contractor's ability to ensure that their tier 1 level suppliers safeguard covered defense information in accordance with DFARS Clause 252.204-7012.
- b. This DID contains the format, content, and intended use information for the data deliverable resulting from the work task described in the contract.

#### Requirements:

- 1. Reference Documents: The applicable issue of the documents cited herein, including approval dates and dates of applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format is acceptable.
- 3. Content: The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information must include a description of how the Contractor will identify and restrict the dissemination of covered defense information to subcontractors who require the covered defense information to execute the requirements in their contract and how the Contractor will ensure that their tier 1 level suppliers safeguard covered defense information with the requirements of DFARS Clause 252.204-7012. The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information shall include the following:

3.1.	Cover Page: The cover page of the Contractor's Record of Tier 1 Level Suppliers
Receivir	ng/Developing Covered Defense Information shall include:

**DI-SCRE-82258** 

- a. Title of the document (i.e., [Name of Contractor] Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information
- b. Contractor's Data Universal Numbering Systems (DUNS) and Commercial and Government Entity (CAGE) code numbers
- c. Contract number(s) or other type of agreement (if available)
- 3.2. Tier 1 Level Supplier Information (for each Tier 1 Level Supplier receiving/developing covered defense information associated with this contract)
- a. Supplier Name
- b. Supplier contract and/or agreement number (if available)
- c. Supplier Point of Contact: name, email, and phone number
- d. Date the Tier 1 Level Supplier sub contract was put in place
- e. Number of sub contracts with Tier 1 Level Supplier
- f. Supplier contract and/or agreement contains or will contain substance of DFARS Clause 252.204-7012 Y/N
- g. Supplier contract and/or agreement contains or will contain cyber security measures and/or requirements other than those identified in DFARS Clause 252.204-7012 and National Institute of Standards and Technology (NIST) Special Publication (SP) 800- 171 Rev 1: Y/N (NIST SP 800-171 can be found at https://csrc.nist.gov/publications/detail/sp/800-171/rev-1/final
- h. Contractor's DUNS and CAGE numbers:

#### DID: DI-SCRE-82258

- i. Supplier has conducted or will conduct a self-assessment in accordance with NIST SP 800-171A:Y/N (NIST SP 800-171A can be found at https://csrc.nist.gov/publications/detail/sp/800-171a/final)
- j. Supplier System Security Plan and Associated Plans of Action in accordance with NIST SP 800-171 Rev 1 Security Requirement 3.12.4 and 3.12.2
- k. List of Supplier's Tier 1 Level Suppliers receiving and/or developing covered defense information

END OF DI-SCRE-82258

Site	C9300L-24P-4X-A	C9300L-48P-4X-A	C9300-48P-A 2X	C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X	C9300-48P-A 7X	4 Port Switch	8 Port Switch	C9500-48Y4C-A	SFP-10G-LR++=	Total Ports per Site
QUAN	121	52	50	237	10	6	0		0	18	950	19,944
GPON	0							49			0	0
INHZ	4	2	6							2	30	480
PKWY	0	0		15							12	720
SCPA	0	0		3							4	144
BAND	0	0	0								0	0
BRRK	0	0	0	0						0	0	0
WNYZ	0	0	0	0						0	0	0
ANNZ	2	1		3						0	10	240
											•	
Total	127	55	56	258	10	6	0	49	0	20	1006	21,528

\*\*These 8 port switches will convert to C9300L-24P-4X-A switches once we validate through the VSS

**These 4 port switches will convert to C9300L-24P-4X-A switches once we validate through th	e VSS
--	-------

C9300L-24P-4X-A	127
C9300L-48P-4X-A	55
C9300-48P-A	330
Total EUB Switches	512
C9300-48P-A With NM-8X	234
C9300-48P-A With No NM	96
STACK-T1-3M	24
CAB-SPWR-150CM	24

NOTE: Total switches proposed does not currently take into account the 25% growth requirement. This estimate is based on a 1 for 1 refresh and included necessary licensing to support SDA/Multi-tenancy) We will dial this number in following the VSS which will then shed light on current utilization with projected growth factored in

Host Name	Device Model	C9300L-24	C9300L-48	C9300-48P-A 2X C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X C9300-48P-A 7X	8 Port	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
QUAN-U03-AS-21	WS-C3560V2-24TS-S	1							4	Bldg_0711_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3HJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-14	WS-C3560V2-24TS-S	1							4	Bldg_0716_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X379	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-34	WS-C3560V2-48TS-S		1							Bldg_1001_Floor_0001_Room_0001_Rack_0001_	FDO1719Y0XA	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-58	WS-C3560V2-24TS-S	1								Bldg_1002_Floor_0001_Room_0001_Rack_0001_	FDO1437X020	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-25	WS-C4506-E		5				ļ			Bldg_1019_Floor_0001_Rm_Telco_Rack_0001_	SPE1730008V	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-46	WS-C3560V2-24TS-S	1								Bldg_1304_Floor_0001_Room_Telco1_Rack_0001_	FD01437X376	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-23	WS-C3560V2-24TS-S	1								Bldg_13201_Floor_0001_Room_Closet_Rack_0001_	FD01437X039	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-29	WS-C3560V2-48TS-E		1				<u> </u>		1	Bldg_15_Floor_0001_Room_0001_Rack_0001_	FD01529X1WX	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-60	WS-C3560V2-24TS-S	1					<u> </u>			Bldg_15000_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2NH	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-61	WS-C3560V2-24TS-S	1					<u> </u>			Bldg_15001_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2NU	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-62	WS-C3560V2-24TS-S						<u> </u>			Bldg_15002_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2RP	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-64	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15004_Floor_0001_Rm_Telco1_Rack_0001_	FD01645Y139	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-65							<u> </u>		1	Bldg_15005_Floor_0001_Rm_Telco1_Rack_0001_	FD01645Y12X	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-66	WS-C3560V2-24TS-S						<u> </u>			Bldg_15006_Floor_Basement_Room_Telco1_Rack_0001	FD01645Y13J	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-67	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15007_Floor_0001_Rm_0001_Rack_0001_	FD01645Y13L	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-68	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15008_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2RW	NCR QUAN Nodes		QUAN QUAN
QUAN-U08-AS-69							-		1	Bldg_15009_Floor_0001_Rm_0001_Rack_0001_	FD01645Y138	NCR QUAN Nodes	NCR NCR	
QUAN-U08-AS-41	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_17_Floor_0001_Room_0001_Rack_0001_	FD01437V146	NCR QUAN Nodes		QUAN
QUAN-U08-AS-42	WS-C3560V2-2415-5 WS-C4503-E			2			-			Bldg_17_Floor_0001_Room_0002_Rack_0001_  Bldg 17 Floor 2 Room 219 Rack 0001	FD01437V2AQ	NCR QUAN Nodes NCR QUAN Nodes	NCR	QUAN QUAN
QUAN-U08-AS-43		_	1	2							FXS1735Q2AB	,-	NCR	
QUAN-U08-AS-27	WS-C3560V2-48TS-S WS-C4503-E		1	2						Bldg_1775_Floor_0001_Rm_Telco1_Rack_0001_	FDO1633X19P	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-82 QUAN-U05-AS-20	WS-C4503-E WS-C3560V2-24TS-S	+ -	-	<del>                                     </del>						Bldg_1775_Floor_0001_Room_telco1_Rack_0001_ bldg 1775 Floor 1 Room 0001 Rack 0001	SPE1735003S FDO1437X02V	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U05-AS-20 QUAN-U05-AS-21	WS-C3560V2-241S-S WS-C3560V2-48TS-S		4							bldg_1775_Floor_1_Room_0001_Rack_0001	FDO1437X02V FDO1633X19U	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U05-AS-21 QUAN-U08-AS-47	WS-C3560V2-4815-5 WS-C4503-E	-	1	3							SPE171500KE	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-47 QUAN-U08-AS-74	WS-C4503-E WS-C4503-E	+	1	2						Bldg_1776_Floor_0001_Room_Telco1_Rack_0001  Bldg_1998_Floor_0001_Room_Telco_1_Rack_0001	SPE171300KE SPE134300YL	NCR QUAN Nodes  NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-74	WS-C3560V2-48TS-E		1	2							FDO1529X1X5		NCR	QUAN
QUAN-U08-AS-44 QUAN-U08-DR-01	WS-C6509-E		1					1	4	Bldg_1999_Floor_0001_Room_0001_Rack_0001_ Bldg_1999_Floor_0001_Room_Telco1_Rack_0001	SMC1643006Z	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-DR-02	WS-C6509-E							1	•		SMC16430072	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DR-02 QUAN-U08-AS-04	WS-C3560V2-48TS-S		1					1		Bldg_1999_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X19A	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-04	WS-C4506-E	_	1	3						bldg_2004_Floor_1_Room_0117_Rack_0001  Bldg_2004_Floor_1_Room_TELCO1_Rack_1	FXS1732Q3ZC	NCR QUAN Nodes	NCR	QUAN
	WS-C4506-E WS-C4506-E	_		3							- ·		_	QUAN
QUAN-U08-AS-38 QUAN-U08-AS-39	WS-C4506-E WS-C4506-E	_		3						Bldg_2006_Floor_0001_Room_108_Rack_0001_	FXS1732Q3WE FXS1732Q3ZU	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-40	WS-C4506-E WS-C4506-E	_		3						Bldg_2006_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q320 FXS1731Q4AY	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-40	WS-C3560V2-48TS-S	_	1	3						Bldg_2006_Floor_3_Room_308_Rack_1_ Bldg_2006_Floor_Basement_Room_B014_Rack_1	FDO1633X1BR	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-06	WS-C4506-E	_	1	3							FXS1732Q3CN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-21	WS-C4506-E WS-C4506-E			3						Bldg_2008_Floor_0001_Room_Telco1_Rack_0003_ Bldg_2008_Floor_0003_Room_0003_Rack_0001	SPE173000A4	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-20	WS-C4506-E			3							SPE173000A4 SPE173000C9	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-20	WS-C4506-E WS-C4506-E			3						Bldg_2008_Floor_2_Room_231_Rack_2_	FXS1732Q406	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-08	WS-C4506-E			3						Bldg_2009_Floor_0002_Room_0002_Rack_0001_ Bldg_2009_Floor_3_Room_332_Rack_1	SPE172801YN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-31	WS-C4506-E			3						Bldg 2010 Floor 0002 Rm 211 Rack 0001	SPE17300087	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-32	WS-C4506-E			3			1			Bldg 2011 Floor 0001 Rm 116 Rack 0002	SPE17300087 SPE17300096	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-21	WS-C3560V2-48TS-E		1							Bldg 2013 Floor 0001 Room 0001 Rack 0001	FDO1529X1XV	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-20	WS-C3560V2-24TS-S	1	1				1			Bldg 2013 Floor 1 Room BreakRm Rack 1	FD01329X1XV FD01437V110	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-22	WS-C3560V2-48TS-E	-	1				1		1	Bldg 2014 Floor 0001 Room Telco1 Rack 0001	FD01437V110	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-70	WS-C3560V2-48PS-S		1							Bldg 2015 Floor 0001 Rm Telco1 Rack 0001	FD01529X1XG	NCR QUAN Nodes	NCR	QUAN
OUAN-U04-AS-09	WS-C3560V2-48TS-S		1				1			Bldg 2032 Floor 0001 Room 000 Rack 001	FD01723Y2D5	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-26	WS-C4506-E		1	3						Bldg_2032_Floor_0001_Room_Telco1_Rack_0001_	SPE173000BS	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-24	WS-C3560V2-48TS-S		1							Bldg 2032 Floor 0001 Room Telco2 Rack 0001	FDO1633X1A2	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-01	WS-C4506-E		1	2			1			Bldg 2034 Floor 0001 Room Telco1 Rack 0001	SPE1728020L	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-02	WS-C4506-E			3						Bldg 2034 Floor 1 Rm TelcoSouth Rack 3	SPE17280208	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-10	WS-C3560V2-48TS-S		1							Bldg 2043 Floor 1 Rm 124 Rack 1	FDO1636Y15K	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-11	WS-C4503-E		1	2			1			Bldg 2043 Floor 1 Room EMB Rack 1	SPE134300ZY	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-12	WS-C4506-E	+	<b>†</b>	2						Bldg 2043 Floor 1 Room Telco 1 Rack 0002	FXS1731Q4AR	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-46	WS-C3560V2-24TS-S	1								Bldg 2045 Floor 0001 Room 0001 Rack 0001	FD01437V125	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-17	WS-C4506-E	+ - '	†	2						Bldg 2048 Floor 0001 Room Telco1 Rack 0001	FXS1732Q3W0	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-17	WS-C4506-E	+	<b>†</b>	3						Bldg 2076 Floor 0001 Room 0001 Rack 0001	FXS1732Q411	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-02	WS-C4506-E	+	<b>†</b>	3						Bldg 2076 Floor 0001 Room 0006 Rack 0001	FXS1732Q411	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-A3-02	WS-C6506-E							1	-	Bldg 2076 Floor 0001 Room 0006 Rack 0001	SAL172264PK	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-DR-02	WS-C6506-E	+	<b>†</b>					1		Bldg 2076 Floor 0001 Room 0006 Rack 0001	SAL172264PJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-DR-02	WS-C4506-E WS-C4506-E	+	<del>                                     </del>	2				1	2	Bldg 2076 Floor 0002 Room 0002 Rack 0001	FXS1732Q3ZG	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-04 QUAN-U08-AS-35	WS-C4506-E WS-C3560V2-48TS-E	+	1							Bldg 2077 Floor 0002 Room 0002 Rack 0001	FDO1529X1X4	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-35	WS-C3560V2-48TS-E WS-C3560V2-48TS-E	+	1							Bldg 2077 Floor 0002 Room 0210 Rack 0001	FD01529X1X4 FD01529X263	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-36	WS-C4506-E		1	2			1			Bldg 2077 Floor Basement Rm B28 Rack 0001	FXS1732Q3WC	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-36	WS-C4506-E WS-C4506-E	+	<del>                                     </del>	3						Bldg 2079 Floor 1 Rm 138 Rack 1	FXS1732Q3WC FXS1732Q412	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-17 QUAN-U08-AS-18	WS-C4506-E WS-C4506-E		1	3						Bldg 2079 Floor 2 Rm 226 Rack 1	SPE17280245	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-18	WS-C4506-E WS-C3560V2-24TS-S	1	<del>                                     </del>							bldg 2080 Floor 1 Room 0001 Rack 0001	FD01437V291	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-81	WS-C4503-E		1	2						Bldg 2082 Floor 0001 Room 115 Rack 0001	SPE171500KJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-32	WS-C4503-E WS-C3750G-48PS-S	+	1							Bldg 2082 Floor 0001 Room B12 Rack 0001	FOC1109Y2F1	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-26 QUAN-U03-AS-40	WS-C3750G-48P-S		1	2						Bldg 2084 Floor 0001 Room Telco1 Rack 0001	FDO1719H3KR,FDO1713Z0RP	•	NCR	QUAN
QUAN-U03-AS-40 QUAN-U03-AS-43	WS-C3750X-48P-S WS-C3750X-48P-S		<u> </u>	2						Bldg 2084 Floor 0001 Room Telco1 Rack 0001  Bldg 2084 Floor 0001 Room Telco1 Rack 0001	FDO1719H3KK,FDO171320KF	•	NCR NCR	QUAN
QUAN-U03-AS-43 QUAN-U03-AS-41	WS-C3750X-48P-S WS-C3750X-48P-S		-	3						Bldg 2084 Floor 0001 Room Telco1 Rack 0001  Bldg 2084 Floor 0002 Room Telco2 Rack 0001	FDO1720R1HM,FDO1608R11	•	NCR NCR	QUAN
QUAN-U03-AS-41 QUAN-U03-AS-42	WS-C3750X-48P-S WS-C3750X-48P-S	+	1	3						Bldg 2084 Floor 0002 Room Telco2 Rack 0001  Bldg 2084 Floor 0003 Room Telco3 Rack 0001	FDO1720R1WE,FDO1719H3L		NCR NCR	QUAN
-		+	_	3							,			QUAN
QUAN-U04-AS-07	WS-C3560V2-48TS-E		1						4	Bldg_2100_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WP	NCR QUAN Nodes	NCR	_

_					<u></u>								
QUAN-U04-AS-08	WS-C3560V2-48TS-S		l e					2	Bldg_2100_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X190	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-43	WS-C4503-E		2					4	Bldg_2105_Floor_0001_Room_Telco1_Rack_0001_	SPE171500L0	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-27	WS-C3560V2-24TS-S	1						2	Bldg_2105_Floor_0002_Room_Telco2_Rack_0001_	FDO1437V10K	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-49	WS-C3560V2-24TS-S	1						4	Bldg_2105T_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y19S	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-12	WS-C3560V2-24TS-S	1						4	Bldg_2106_Floor_0001_Room_0164_Rack_1_	FDO1438X004	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-51	WS-C3560V2-24TS-S	1						4	Bldg_2110_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y191	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-11	WS-C3560V2-24TS-S	1						4	Bldg_2117_Floor _0001_Room_Telco1_Rack_0001_	FDO1437X36H	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-15	WS-C3560V2-24TS-S	1						4	Bldg_2118_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V11J	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-01	WS-C4506-E		3	3				4	Bldg_2121_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3W6	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-60	WS-C3560V2-24TS-S	1						4	Bldg_2122_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y13Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-61	WS-C3560V2-24TS-S	1						4	Bldg_2123_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y121	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-44	WS-C3560V2-24TS-S	1						4	Bldg_2124_Floor_0001_Room_Teco1_Rack_0001_	FDO1438X05W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-84	WS-C3560V2-24TS-S	1						4	bldg_2132_Floor_1_Room_0119_Rack_0001	FDO1437X3DS	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-06	WS-C3560V2-24TS-S	1						4	Bldg_2177_Floor_1_Room_1_Rack_Telco1_	FDO1645Y13Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-08	WS-C3560V2-24TS-S	1						4	Bldg_2179_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X01L	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-04	WS-C3560V2-24TS-S	1						4	Bldg_2187_Floor_0001_Room_Teco2_Rack_0001_	FDO1437X01Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-03	WS-C3560V2-24TS-S	1						2	Bldg_2187_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X3LL	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-22	WS-C3560V2-24TS-S	1						4	Bldg_2189_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y14Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-DR-01	WS-C6506-E						1		Bldg 2189A Floor 0001 Room Telco1 Rack 0001	SAL1633KRTA	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-DR-02	WS-C6506-E						1		Bldg 2189A Floor 0001 Room Telco1 Rack 0004	SAL17236L1N	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-07	WS-C4506-E		3	3				4	Bldg 2189N Floor 0001 Room Telco1 Rack 0001	SPE173000DQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-07	WS-C4506-E		2						Bldg_2200_Floor_0001_Room_153A_Rack_0001_	FXS1732Q408	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-06	WS-C4503-E		2						Bldg 2200 Floor 0001 Room B-wing Rack 0001	SPE1343012Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-05	WS-C4503-E		2	1					Bldg 2200 Floor 0001 Room C-wing Rack 0001	SPE134300VS	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-02	WS-C4506-E		3	3					Bldg 2200 Floor 0001 Room Telco1 Rack 0003	FOX1338GZZK	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-08	WS-C4506-E			3		<b>†</b>	1		Bldg 2200 Floor 0002 Room 207 Rack 0001	FOX1338GWXX	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-09	WS-C4506-E		3	3					Bldg 2200 Floor 0002 Room 229 Rack 0001	FXS1732Q3Z1	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-10	WS-C4506-E			3					Bldg 2200 Floor 0002 Room 252 Rack 0001	FOX1338GZZL	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-03	WS-C4503-E		2						Bldg 2200 Floor 000B Room B20B Rack 0002	SPE1343012R	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-28	WS-C6506-E		2						Bldg 2200 Floor 000B Room B65 Rack 0001	SAL172264NQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-04	WS-C4503-E		2						Bldg 2200 Floor Basement Room A-wing Rack 0001	SPE1340004Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-12	WS-C4506-E			1					Bldg 2201A Floor 0001 Room 110 Rack 0001	FXS1732Q3CV	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-DR-01	WS-C6506-E			,					Bldg 2201A Floor 0001 Room Telco1 Rack 0001	SAL172369MW	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-DR-02	WS-C6506-E	_							Bldg 2201A Floor 0001 Room Telco1 Rack 0001	SAL172264PD	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-20	WS-C4506-E		3						Bldg 2202 Floor 0001 Room 105 Rack 0001	FXS1732Q3W5	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-22	WS-C4506-E								Bldg 2202 Floor 0002 Room 0210 Rack 0001	SPE173000BF	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-18	WS-C4506-E								Bldg 2202 Floor 000B Room 0001 Rack 0001	FXS1732Q3VQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-13	WS-C4506-E								Bldg 2203 Floor 1 Room Telco 1 Rack 1	FOX1335GRHE	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-32	WS-C4500-E WS-C4503-E		3	2						SPE171500KF	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-26	WS-C3560V2-48TS-E		2						Bldg_2203A_Floor_0001_Room_0001_Rack_0001_	FD01529X1WQ	NCR QUAN Nodes	NCR	QUAN
	WS-C4503-E		3						Bldg_2204_Floor_0001_Room_114_Rack_0001_		-	NCR	QUAN
QUAN-U06-AS-24	WS-C4503-E WS-C4506-E		2	,					Bldg_2204_Floor_Basement_Room_B17_Rack_0001_	FXS1735Q2AF	NCR QUAN Nodes		
QUAN-U06-AS-16				3					Bldg_2207_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3WH	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-15	WS-C3560V2-48TS-E		<u> </u>						Bldg_2207_Floor_0002_Room_0002_Rack_0002_	FDO1529X1XU	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-14	WS-C4506-E			3					Bldg_2207_Floor_000B_Room_B05_Rack_0001_	FOX1338GZZE	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-34	WS-C4503-E		2						Bldg_2208_Floor_1_Room_Telco1_Rack_1_	FXS1733Q0HZ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-31	WS-C4506-E		1	3					Bldg_2209T_Floor_1_Room_Telco1_Rack_1_	SPE1728024H	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-29	WS-C4506-E			3					Bldg_2210_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-30	WS-C4506-E		ļ	3					Bldg_2210_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3WW	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-19	WS-C3560V2-24TS-S	1		1	<u> </u>	1			Bldg_2247_Floor_0001_Room_0001_Rack_0001_	FD01438X02R	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-21	WS-C3560V2-24TS-S	1		1		<b> </b>			Bldg_2248_Floor_0001_Room_0001_Rack_0001_	FD01437X02Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-33	WS-C3560V2-24TS-S	1		1		<b> </b>			Bldg_2249_Floor_0001_Room_0001_Rack_0001_	FDO1437V12W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-72	WS-C4506-E		1 3	3					Bldg_2300_Floor_1_Room_Telco1_Rack_1_	FXS1732Q3XD	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-71	WS-C4506-E		3	3		<b> </b>			Bldg_2300A_Floor_1_Room_Telco1_Rack_1_	FXS1732Q0DN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-73	WS-C4506-E		1 3	3		<b> </b>			Bldg_2300B_Floor_1_Room_Telco1_Rack_1_	SPE173000C6	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-10	WS-C3560V2-24TS-S	1		-					Bldg_2321_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-64	WS-C3560V2-24TS-S	1		-		<b> </b>			Bldg_23402_Floor_1_Room_1_Rack_1	FDO1645Y13A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-41	WS-C3560V2-24TS-S	1				1			Bldg_24004_Floor_1_Room_Telco_Rack_1_	FDO1438X01H	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-58		4.1							Bldg_24005_Floor_1_Room_0001_Rack_1_	FDO1437X3GR	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-24TS-S	1	†		i I			4	Bldg_24006_Floor_0001_Room_telco10_Rack_0001_	FDO1437V0YJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-04	WS-C3560V2-24TS-S	1					+						
QUAN-U07-AS-75	WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1							Bldg_24008_Floor_1_Room_0001_Rack_1_	FDO1437X3GZ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E	1 1 1	3	3				4	Bldg_24009_Floor_0001_Room_0152_Rack_0001_	FDO1437X3GZ FXS1732Q3WY	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S	1 1 1	3	3				4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1	FDO1437X3GZ FXS1732Q3WY FDO1633X18D	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR	QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S	1 1 1	3	3				4	Bldg_24009_Floor_0001_Room_0152_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0	NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3				4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S	1 1 1 1 1 1 1	3	3				4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1	3	3				4 4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1_ Bidg_24017_Floor_0001_Room_telco1_Rack_0001_ Bidg_24018_Floor_0001_Room_0001_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3				4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1	3	3				4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_Office_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3					4 4 4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_0ffice_Rack_0001 Bldg_24144_Floor_0001_Room_0001_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_0ffice_Rack_0001 Bldg_24144_Floor_0001_Room_0001_Rack_0001 Bldg_24157_Floor_0001_Room_Telco1_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-27 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30 QUAN-U07-AS-34	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				4 4 4 4 4 4 4 4 4 2	Bidg 24009_Floor_0001_Room_0152_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-30 QUAN-U07-AS-30 QUAN-U07-AS-31 QUAN-U07-AS-31	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2	Bidg 24009_Floor_0001_Room_0152_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-01 QUAN-U07-AS-01 QUAN-U07-AS-30 QUAN-U07-AS-30 QUAN-U07-AS-31 QUAN-U07-AS-31 QUAN-U07-AS-31	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C4560-E WS-C4506-E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2 2	Bidg 24009 Floor 0001 Room 0152 Rack 0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085 FXS1647Q04E	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30 QUAN-U07-AS-34 QUAN-U07-AS-31 QUAN-U07-AS-35 QUAN-U07-AS-35	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2 2 4	Bidg 24009 Floor 0001 Room 0152 Rack 0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085 FXS1647Q04E FD01436X3KV	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN

QUAN-U07-AS-48	WS-C3560V2-48TS-S		1					4	Bldg_24193_Floor_1_Rm_Telco1_Rack_0001_	FDO1633X19T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-26	WS-C3560V2-24TS-S	1	L					4	Bldg_24193A_Floor_1_Room_Telco 1_Rack_1_	FDO1645Y19A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-43	WS-C3560V2-48TS-S		1					4	Bldg_24194_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X19F	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-03	WS-C3560V2-24TS-S	1	L					4	4 Bldg_24195_Floor_0001_Room_0001_Rack_0001_	FDO1645Y199	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-36	WS-C3560V2-24TS-S	1	L					4	4 Bldg_24196_Floor_1_Room_Telco1_Rack_1_	FDO1437V28G	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-51	WS-C3560V2-24TS-S	1	L					4	Bldg_24197_Floor_0001_Room_telco1_Rack_0001_	FDO1437X3DK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-79	WS-C3560V2-48TS-E		1					4	4 bldg_24200_Floor_1_Room_0149_Rack_0001	FDO1529X1X6	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-08	WS-C4506-E			3				4	4 Bldg_24202_Floor_1_Room_143_Rack_1_	FXS1731Q4AV	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-38	WS-C3560V2-24TS-S	1	L					4	4 Bldg 24203 Floor 0001 Room Telco1 Rack 0001	FDO1645Y12V	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DR-01	WS-C6506-E						1		Bldg 24204 Floor 0001 Room Telco1 Rack 0003-Row-0004	SAL172369MY	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DR-02	WS-C6506-E						1		Bldg 24204 Floor 0001 Room Telco1 Rack 0003-Row-0004	SAL1718474L	NCR QUAN Nodes	NCR	QUAN
DR	110 00000						1		Bldg 26100				
DR							1		Bldg 26100				
QUAN-U07-AS-61	WS-C4506-E			3			-		4 Bldg 26100 Floor 0001 Room Telco1 Rack 0001	SPE173000D1	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-62	WS-C3750X-24T-S	1		3					2 Bldg 26100 Floor 1 Room RWC1 Rack 1	FDO1746Z0JL	NCR QUAN Nodes	NCR	QUAN
	WS-C3750X-24T-S	-									i i		QUAN
QUAN-U07-AS-63			-						2 Bldg_26100_Floor_1_Room_RWC2_Rack_1_	FD01745P23K	NCR QUAN Nodes	NCR	
QUAN-U07-AS-71	WS-C3560V2-24TS-S	1	L						Bldg_26101_Floor_0001_Room_0000_Rack_0001	FDO1710Y0N2	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-68	WS-C3750X-24T-S	1	L L						Bldg_26133_Floor_1_Room_Telco1_Rack_1_	FDO1746H070	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-70	WS-C3560V2-24TS-S	1	l l						Bldg_26143_Floor_1_Room_Telco1_Rack_1_	FDO1437X3DV	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-69	WS-C3560V2-24TS-S	1	l l					4	Bldg_26144_Floor_1_Room_Telco1_Rack_1_	FDO1438X05A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-65	WS-C3750X-24T-S	1	<u> </u>						Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746H0ME	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-66	WS-C3750X-24T-S	1	L .					2	2 Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746P0Y9	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-67	WS-C3750X-24T-S	1						4	4 Bldg_2650_Floor_1_Room_1_Rack_1	FDO1746H0MK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-19	WS-C3560V2-24TS-S	1						4	Bldg_27001_Floor_0001_Room_0001_Rack_0001_	FDO1437V0W4	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-15	WS-C3560V2-24TS-S	1	1					4	4 Bldg_27007_Floor_0001_Room_0001_Rack_0001_	FDO1438X03L	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-52	WS-C3560G-24TS-S	1	L					4	4 Bldg_27028T_Floor_0001_Room_Telco1_Rack_01_	FOC1623V0TW	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-18	WS-C3560V2-24TS-S	1	ı İ						Bldg_27046_Floor_0001_Room_0001_Rack_0001_	FDO1437V0ZB	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-25	WS-C3560V2-24TS-S	1	ı			1			4 Bldg 27067 Floor 0001 Room 0001 Rack 0001	FDO1438X02T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-29	WS-C3560V2-24TS-S	1	1						4 Bldg 27200 Floor 1 Room Telco1 Rack 1	FDO1437X380	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-22	WS-C3560V2-24TS-S	1							4 Bldg 27210 Floor 0001 Room 604 Rack 0001	FDO1437V0YM	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-21	WS-C4506-E	-		3					4 Bldg 27211 Floor 0001 Room S4 Rack 0001	SPE173000B9	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-24	WS-C3560V2-24TS-S	1		The state of the s					# Bldg 27231 Floor 0001 Room Telco1 Rack 0001	FD01437X015	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-20	WS-C3560V2-48TS-S	<del>-</del>	1						# Bldg 27241 Floor 0001 Rm Telco1 Rack 0001	FD01437X013	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-48TS-E		1										QUAN
QUAN-U07-AS-39			1						1 Bldg_27250_Floor_0001_Rm_Telco1_Rack_0001_	FD01529X1XH	NCR QUAN Nodes	NCR	
QUAN-U07-AS-45	WS-C3560V2-24TS-S	1							2 Bldg_27250_Floor_0001_Room_telco1_Rack_0001_	FDO1437V22T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-46	WS-C3560V2-24TS-S	1	l l						Bldg_27251_Floor_0001_Room_0001_Rack_0001_	FDO1437V0X3	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-23	WS-C3560V2-24TS-S	1	4						4 Bldg_27270_Floor_0001_Room_0001_Rack_0001_	FDO1437V272	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-32	WS-C3560V2-48TS-E		1						4 Bldg_27275_Floor_2_Room_206_Rack_2_	FDO1528X0CG	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-12	WS-C3560V2-48TS-S		1						4 Bldg_27277_Floor_2_Room_206_Rack_2_	FDO1633X1AD	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-40	WS-C3560V2-24TS-S	1	L					4	Bldg_27279_Floor_0001_Room_telco10_Rack_0001_	FDO1438X036	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-17	WS-C4506-E			3					4 Bldg_27281_Floor_0001_Rm_Telco1_Rack_0001_	FXS1732Q3EE	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-14	WS-C6506-E			3				4	4 Bldg_27282_Floor_0001_Room_0001_Rack_0001_	SAL172369MS	NCR QUAN Nodes	NCR	QUAN
DR							1		Bldg_27282				
DR							1		Bldg_27282				
QUAN-U07-AS-27	WS-C3560V2-48TS-E		1					4	4 Bldg_27290TX_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X1P5	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-13	WS-C3560V2-24TS-S	1	L					4	4 Bldg_27400_Floor_0001_Room_0001_Rack_0001_	FDO1437X356	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-56	WS-C4506-E			3				4	4 Bldg_27402_Floor_0001_Room_0001_Rack_0008	FOX1614GXY4	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-57	WS-C4506-E			3				2	2 Bldg 27402 Floor 0001 Room 0001 Rack 0008	SPE154901XJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-55	WS-C3560V2-48TS-S		1					2	2 Bldg_27402_Floor_0001_Room_Telco1_Rack_0001	FDO1633X1AY	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-05	WS-C3850-48U				6				4 BLDG 2741 FLR 02 RM 209 RN2 U30	FCW1951D0BJ,FCW1951C0EY	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U07-AS-54	WS-C3560V2-24TS-S	De-Scope 3	1					De-Scope 4	Bldg_27410_Floor_0001_Room_135_Rack_0001_	FDO1437V12M	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-01	WS-C3850-48U				De-Scope 7			De-Scope 2	BLDG_27410_FLR_01_RM_129_RN2_U12	FOC1951X0S4,FOC1951U0R1,	,.	MCEN	INS
QUAN-U09-AS-06	WS-C3850-48U		De-Scope 1						BLDG_27410_FLR_01_RM_135_R1_U39	FCW1951D10R	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U09-AS-03	WS-C3850-48U				De-Scope 7				BLDG_27410_FLR_01_RM_141_RN3_U26B	FOC1938X1K7,FCW1941C01R		MCEN	INS
QUAN-U09-AS-02	WS-C3850-48U				De-Scope 6				BLDG_27410_FLR_01_RM_141_RN3_0200 BLDG_27410_FLR_01_RM_145_RACK_RN1_U17	FOC1951U0QV,FOC1951U0G4		MCEN	INS
QUAN-U09-AS-02 QUAN-U05-AS-02	WS-C3850-480 WS-C3560V2-24TS-S	-			<del>De stope 0</del>	1	1			FDO1645Y18M	NCR QUAN Nodes	NCR	QUAN
		+	+	<del>                                     </del>	+	+	1		1 Bldg 28000 Floor 1 Room Telco 1 Rack 1		,.		
QUAN-U05-AS-25	WS-C3560V2-24TS-S	1 1	+			+			Bldg_28009_Floor_1_Room_Telco1_Rack_1_	FD01645Y19F	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-30	WS-C3560V2-24TS-S	1 1	1		<del></del>	+			Bldg_3015_Floor_0001_Room_0001_Rack_0001_	FD01645Y19U	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-31	WS-C3560V2-24TS-S	1	4		<del></del>	-	1		Bldg_3015A_Floor_0001_Room_0001_Rack_0001_	FDO1437X00W	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-55	WS-C3560V2-48TS-S		1			1			Bldg_3017_Floor_1_Room_Telco1_Rack_1_	FDO1738Y2P1	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-52	WS-C3560V2-48TS-S		1						Bldg_3019_Floor_0001_Room_Telco1_Rack_0001	FDO1633X19S	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-30	WS-C4506-E			3					Bldg_3025_Floor_0001_Rm_Telco1_Rack_0001_	SPE1728024S	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-13	WS-C3560V2-24TS-S	1	4						Bldg_3032_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3JT	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-24	WS-C3560V2-24TS-S	1	l I					4	4 Bldg_3045_Floor_0001_Room_0001_Rack_0001_	FDO1437X02W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-22	WS-C3560V2-48TS-S		1					4	4 Bldg_3049_Floor_0001_Room_#0001_Rack_0001_	FDO1709Y1TR	NCR QUAN Nodes	NCR	QUAN
Q07.11 000 7.15 EE	WS-C3560V2-24TS-S	1						4	Bldg_3065_Floor_1_Room_Telco1_Rack_1_	FDO1437V0XT	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11	VV3 C3300 V2 Z413 3	1	L T					4	4 Bldg_3076_Floor_0001_Room_0001_Rack_0001_	FDO1437V231	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-24TS-S								4 Bldg_3077_Floor_0001_Room_0001_Rack_0001_	FDO1645Y1AE	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11		1	L I										
QUAN-U02-AS-11 QUAN-U03-AS-44	WS-C3560V2-24TS-S	1		2				2	2 Bldg_3077_Floor_0002_Room_LAN1_Rack_0001_	FXS1733Q0HG	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37	WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1	L	2 3						•	i i		QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E	1	1	2 3				4	4 Bldg_3078_Floor_0001_Room_115_Rack_0001_	FXS1732Q0DL	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S	1	1	2 3				4	Bldg 3078_Floor_0001_Room_115_Rack_0001_ Bldg 3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR	QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1	2 3				4 2 2	Bldg_3078_Floor_0001_Room_115_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2 FDO1431Z0YM	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09 QUAN-U03-AS-18	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1 1	2 3				2 2 2	4 Bldg 3078 Floor 0001 Room 115 Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001	FXS1732Q0DL FD01431Z0Z2 FD01431Z0YM FD01431Z0ZJ	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1 1	2 3				2 2 2 2 2	Bldg_3078_Floor_0001_Room_115_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2 FDO1431Z0YM	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN

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Committed   Comm	QUAN-U03-AS-39	WS-C3560V2-24TS-S	1					4	Bldg_3081T2_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RQ	NCR QUAN Nodes	NCR	QUAN
1982   1982	QUAN-U02-AS-25	WS-C3560V2-48TS-E		1				4	Bldg_3083_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WT	NCR QUAN Nodes	NCR	QUAN
	QUAN-U02-AS-27	WS-C4503-E		2				4	Bldg 3083A Floor 1 Room 102 Rack 1	FXS1733Q0HE	NCR QUAN Nodes	NCR	QUAN
Section   Company   Comp		WS-C4506-E		3					<del></del>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	NCR	
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Dec   1997   1			1										
1	QUAN-U03-AS-20	WS-C4503-E		2				4	Bldg_3094_Floor_0001_Room_Telco1_Rack_0001_	FXS1733Q0J8	NCR QUAN Nodes	NCR	QUAN
48   19   49   49   49   49   49   49   49	QUAN-U03-AS-15	WS-C3560V2-48TS-S		1				4	Bldg_3094T_Floor_1_Room_Telco 1_Rack_1_	FDO1633X1A9	NCR QUAN Nodes	NCR	QUAN
Description   Company	QUAN-U04-AS-45	WS-C3560V2-24TS-S	1					4	Bldg_3095_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V0XF	NCR QUAN Nodes	NCR	QUAN
Description   Proceedings	QUAN-U04-AS-03	WS-C4503-E		2				4	Bldg 3097 Floor 0001 Room Telco1 Rack 0001	SPE171500L6	NCR QUAN Nodes	NCR	QUAN
Description   Proceedings	OUAN-U04-AS-14	WS-C3560G-24TS-S	1					4	Bldg 3098 Floor 0001 Room 105 BreakFix	FOC1623VOUF	NCR OUAN Nodes	NCR	OUAN
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DAY OF ALL   DO GROSSO 419   1			1					2	Bldg_3098_Floor_1_Room_Server		· · · · · · · · · · · · · · · · · · ·		
DAY AD SECTION   CONTROL	QUAN-U04-AS-01	WS-C3560V2-24TS-S	1					4	Bldg_3099_Floor_01_Room_Telco_01_Rack_01_	FDO1437X02G	NCR QUAN Nodes	NCR	QUAN
Date   Ball A	QUAN-U04-AS-11	WS-C3560V2-48TS-S	:	1				4	Bldg_3100_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X1AZ	NCR QUAN Nodes	NCR	QUAN
Section   Control   Cont	QUAN-U04-AS-02	WS-C3560V2-24TS-S	1					4	Bldg_3101_Floor_1_Room_Telco1_Rack_1_	FDO1710Y0PC	NCR QUAN Nodes	NCR	QUAN
CHARLESSON   NC   COMMISSION	QUAN-U03-AS-07	WS-C3560V2-24TS-S	1						<del></del>	FDO1437V0XY	NCR QUAN Nodes	NCR	QUAN
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CALAN DE AL ST.   CALAN DE A			1	<del>                                     </del>	<b>†</b>	<del>                                     </del>			<del></del>				
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Part   Part	QUAN-U02-AS-17	WS-C3560V2-24TS-S	1					4	Bldg_3240_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X38R	NCR QUAN Nodes	NCR	QUAN
MANUSHINESS   M. CREEKE   2	QUAN-U04-AS-39	WS-C4506-E		3	3			4	Bldg_3250_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024R	NCR QUAN Nodes	NCR	QUAN
MANUSHINESS   M. CREEKE   2	QUAN-U04-AS-38	WS-C4506-E		3	si			2	Bldg 3250 Floor Basement Room CommCtr Rack 0001	FXS1732Q416	NCR QUAN Nodes	NCR	QUAN
DAM-199-5-5-22   NF-CES-0-5-1				2									
DAM-HIGH-SP-21   DAM-HIGH-SP-22   DAM-				<del>                                     </del>						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
COLUMN 1995-ACC   COLUMN 199			1		1				<del></del>				
2   Big 1925   Free 7000   Rem   CREAT ROCK   CREAT ROC			1	<del>                                     </del>									
Company   Comp				3	5			Δ.	BIDD 3255 FIOOR OOOT ROOM OOOT RACK OOOT	ISPE1730008W	NCR QUAN Nodes	NCR	QUAN
March 1996   Mar						1			0				
CAMA USA 6-01   VS - CARGO F   VS			1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_	FOC1426W0P4			INS
DAM-1998-S01   SP-6505FE   3   1   1   1   1   1   1   1   1   1			1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53	MCEN INS QUAN Nodes		
CAMPANIPO-S-GSE   S-CESSOR-E   3   2   108_23255   100_0021, Room, ServerFarm, Risk , 0041   54,123,00478   MCRN NO GLAN No-Roe   MCRN NO GLAN NO GL	QUAN-U99-DS-01	WS-C6506-E WS-C6506-E	1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53	MCEN INS QUAN Nodes	MCEN MCEN	INS INS
COM-M-1994-SOR   WS-CESSOR	QUAN-U99-DS-01 QUAN-U99-DS-02	WS-C6506-E WS-C6506-E	1	3				2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE	MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN	
CQUANTIPS AGE	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01	WS-C6506-E WS-C4506-E WS-C4506-E	1	3 3 3	<b>3</b>			2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR	INS INS QUAN
COUNT-1099-AS-07   VS-C5500-E   S   S   S   S   S   S   S   S   S	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01	WS-C6506-E WS-C4506-E WS-C4506-E	1	3 3 3				2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN	INS INS QUAN INS
2   Bigg 2355   Bior   2003   Section   Sect	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E	1	3 3 3 3 3				2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN	INS UNS QUAN INS INS
CAMANUPA-65-06   WS-65696-6   S   S   S   S   S   S   S   S   S	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E	1	3 3 3 3 3	5 5 5			2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN MCEN	INS QUAN INS INS INS
DUAN-UPI-AS-09   WS-C4509E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E	1	3 3 3 3	5			2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS
QUAN-UPS-AS-06   WS-C6506-F	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E	1	3 3 3 3	5			2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS
QUAN-U99-AS-22   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E	1	3 3 3 3	5 5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005 Bldg_3255_Floor_0001_Room_0129_Rack_0005 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0010_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7F SAL172264PL	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS
QUAN-199-8-623   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 106 Reft, 155   SAL1639MFS   MCEN INS QUAN Nodes   MCEN   INS QUAN-199-8-640   W5-C6506-E   3   1   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-199-8-640   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-104-610   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-104-610   W5-C6506-E   3   3   1   2   36g, 3255 Floor 1, Rom 5erverFarm Red, Row5   SAL1633MFT   MCEQ INN Nodes   MCEN   NS QUAN-104-610   W5-C6506-E   W	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E	1	3 3 3 3 3 3 3 3	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0100_ Bldg_3255_Floor_0002_Room_Telco1_Rack_0001_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF75 SAL172264PL FXS1732Q3W3	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS UNS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-199-A5-03   WS-C5506-E     3     2   882,3255, Floor 1, Room 179, Rack 1,2   SAL1633RRTF   MCRN NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN NODEs   MCRN   NS QUAN NODEs   MCRN   NS QUAN NODEs   MCRN   M	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U94-AS-05 QUAN-U04-AS-06	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C6508-E WS-C6508-E	1	3 3 3 3 3 3 3 2 2				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRm Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS UVAN INS INS INS INS INS INS INS INS INS IN
QUAN-109-AS-04   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E		3 3 3 3 3 3 3 2				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0040  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0001 Room ServerRack 0001  Bldg 3255 Floor 0001 Room ServerRack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 01 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS QUAN INS INS
QUAN-109-AS-04   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E		3 3 3 3 3 3 3 2 2	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS QUAN INS INS
QUAN-UGA-BR-02   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4508-E		3 3 3 3 3 3 2 2	5 5 5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1630HP58	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-LUG-AR-02   WS-C5506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-03	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E		33 33 33 33 33 33 33 33 33 33 33 33 33	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255_Floor_0001_Room_0001_Rack_0003_ Bldg 3255_Floor_0001_Room_0129_Rack_0005_ Bldg 3255_Floor_0001_Room_0129_Rack_0005_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_00010_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg 3255_Floor_0001_Room_ServerFarm_Rack_01001_ Bldg 3255_Floor_0001_Room_ServerRack_0010_ Bldg 3255_Floor_001_Room_ServerRack_0010_ Bldg 3255_Floor_001_Room_ServerRack_0010_ Bldg 3255_Floor_001_Room_ServerRack_163_ Bldg 3255_Floor_1_Room_106_Rack_155_ Bldg 3255_Floor_1_Room_106_Rack_155_ Bldg 3255_Floor_1_Room_179_Rack_12_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1630HP58 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U95-A5-07   WS-C4506-E   De-Scope 3   Secope 4   Secope 5   Secope 6	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-03 QUAN-U99-AS-03	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4503-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 00041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0100 Bldg 3255 Floor 0001 Room ServerRack 0001 Bldg 3255 Floor 1000 Room ServerRack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12	FOC1426W0P4  SAL1630HP53  SAL1633KRTE  FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
DUAN-UDS-AS-18   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telcol Rack 00001   SPE1730000FC   NCR QUAN Nodes   NCR   QUAN-UDS-AS-506   MS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telcol Rack 0001   SPE173000FC   NCR QUAN Nodes   NCR   QUAN-UDS-AS-506   MS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13384AE1   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-514   NS-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4503-E WS-C4503-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0101  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 001 Room ServerRa Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12	FOC1426W0P4  SAL1630HP53  SAL1633KRTE  FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7F  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-19   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telco1 Rack 0001   SPE173000EC   NCR QUAN Nodes   NCR   QUAN U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0002 Rm 26st Rack 0001   FON1338HAE]   NCR QUAN Nodes   NCR   QUAN U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 36vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-07   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 36vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-01   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 56vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 56vet Rack 0001   FON1338GWZ   NCR QUAN Nodes   NCR   QUAN U05-A5-06   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-09   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U90-DR-01 QUAN-U04-DR-02	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4503-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 1 Room 166 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-UOS-AS-06   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0002 Rm 2East Rack 0001   FOX13386HAE]   NCR QUAN Nodes   NCR QUAN Nodes   QUAN-UOS-AS-07   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3F Rack 0001   FOX1338GVXD   NCR QUAN Nodes   NCR	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4503-E  WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerRack_0001_ Bldg_3255_Floor_0001_Room_ServerRack_0001_ Bldg_3255_Floor_1_Room_106_Rack_155_ Bldg_3255_Floor_1_Room_106_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_FlR_01_RM_102_RN3_U18	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0003 Rm 3West Rack 0001   FOX1338GWXD   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-01   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Rm 5F Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-10   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Rom 5F Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm 4West Rack 0001   FOX1338GZY8   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm 4West Rack 0001   FOX1338GXY8   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GXXZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GXXZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 4 Rm 45st Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 4 Rm 45st Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   NCR QUA	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C4506-E  WS-C6506-E			5		1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010-  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 5erverFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF75 SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-07   W5-C4506-E   De-Scope 2   Bidg 3280 Floor 0003 Rm SF Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-10   W5-C4503-E   De-Scope 2   Bidg 3280 Floor 0003 Room SF Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-04   W5-C4506-E   De-Scope 3   De-Scope 3   Bidg 3280 Floor 0003 Rm SF Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-05   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm SF West Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-05   W5-C4506-E   De-Scope 2   Bidg 3280 Floor 0005 Rm SF West Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-06   W5-C4503-E   De-Scope 2   Bidg 3280 Floor 1West Room Telcol Rack 0002   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-09   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm AEast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm AEast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm SFast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 4   Bidg 3300 Floor 0001 Rm 119 Rack 0001   SPE1728024Q   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-01   W5-C4506-E   DE-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 119 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-01   W5-C4506-E   DE-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-12   W5-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C1   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-15   W5-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C1   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-15   W5-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 2 Rm 2428 Rack 0001   SPE1730000C1   NCR QUAN Nodes   NCR   QUAN QUAN-	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E		De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-10   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Room 5F Rack 0001   FXS1735Q2EY   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm_dwest Rack 0001   FOX1338G2W3   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm_Swest Rack 0001   FOX1338G2W3   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 1West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN U05-A5-06   NCR   QUAN V05-A5-06   NCR   QUAN V05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN U05-A5-12   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 001 Rm_119 Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN U05-A5-12   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3280 Floor 001 Rm_119 Rack 0001   SPE1728024Q   NCR QUAN Nodes   NCR   QUAN U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730005T   NCR QUAN Nodes   NCR   QUAN U05-NCB   De-Scope 5   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   DE-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 2   Bldg 3300 Floor 2 Rm 208 Rack 0001   SPE1730009U   NCR QUAN Nodes   NCR   QUAN U05-NCB   QUAN U05-NCB   DE	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRam Rack 0001  Bldg 3255 Floor 1 Room 160 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room 102 RN3 U18  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-10   WS-C4508-E   De-Scope 2   Bldg 3280 Floor 0003 Rom SF Rack 0001   FXS173502FY   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-04   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm SWest Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm SWest Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-01   WS-C4508-E   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-09   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-09   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 0001 Rm 119 Rack 0001   FXS1336G3LZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-12   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 0001 Rm 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Rm 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-13   WS-C4506-E   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRam Rack 0001  Bldg 3255 Floor 1 Room 160 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room 102 RN3 U18  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-04         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 0004 Rm 4West Rack 0001         FOX1338G2Y8         NCR QUAN Nodes         NCR         QUAN QUAN-U05-A5-05         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 0005 Rm 5West Rack 0001         FOX1338GWXZ         NCR QUAN Nodes         NCR         QUAN QUAN-U05-A5-01         WS-C4506-E         De-Scope 2         Bldg 3280 Floor 1West Room 1Febra Rack 0001         FOX1338GWXZ         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0100  Bldg 3255 Floor 0001 Room ServerRam Rack 0000  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3250 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GWXZ   NCR QUAN Nodes   NCR   QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg_3255_Floor_0001_Room_0001_Rack_0003_ Bidg_3255_Floor_0001_Room_0129_Rack_0005 Bidg_3255_Floor_0001_Room_0129_Rack_0005 Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_Bidg_3255_Floor_0001_Room_ServerFarm_Rack_00041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_163_ Bidg_3255_Floor_1_Room_106_Rack_155_ Bidg_3255_Floor_1_Room_106_Rack_155_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_0001_Room_telco1_Rack_0001_ Bidg_3280_Floor_0001_Room_telco1_Rack_0001_ Bidg_3280_Floor_0002_Rm_ZEast_Rack_0001_ Bidg_3280_Floor_0003_Rm_3West_Rack_0001_ Bidg_3280_Floor_0003_Rm_3West_Rack_0001_ Bidg_3280_Floor_0003_Rm_SF_Rack_0001_ Bidg_3280_Floor_0003_R	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP5A  SPE173000E  FOX1338HAEI  FOX1338HAEI  FOX1338GZZJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN INS QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-01         WS-C4503-E         De-Scope 2         Bidg 3280 Floor 1West Room Telco1 Rack 0002         FXS1733Q0SZ         NCR QUAN Nodes         NCR         QUAN QUAN-U05-AS-08           QUAN-U05-AS-08         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 4 Rm 4East Rack 0001         FOX1338G3LZ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-09           QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 0001 Rm 13P Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bidg 3300 Floor 0001 Rm 13P Rack 0001         SPE173002CQ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-14         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NCR QUAN Nodes         NCR </td <td>QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07</td> <td>WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E</td> <td></td> <td>De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 2</td> <td></td> <td></td> <td>1 1</td> <td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 00041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0101  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0002 Rm ZEast Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001</td> <td>FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SMG1143NF7H  SMG1143NF75  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY</td> <td>MCEN INS 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WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 2			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 00041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0101  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0002 Rm ZEast Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SMG1143NF7H  SMG1143NF75  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY	MCEN INS QUAN Nodes MCEN UAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-08         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 4 Rm 4East Rack 0001         FOX1338G3LZ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-09           QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 5 Rm 5East Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NCR QUAN Nodes	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U95-AS-19 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C6506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 1 Room 166 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 14  Bldg 3255 Floor 1 Room 179 Rack 14  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTG  SAL1633KRTJ  SAL1633KRTJ  SAL1633KRTJ  SAL1633KRTJ  SAL1633HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000D9  SPE173000DC  FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY FOX1338GZZB	MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 5 Rm 5East Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bidg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-01           QUAN-U05-DR-01         WS-C6506-E         De-Scope 3         1         Bidg 3300 Floor 0001 Room 119 Rack 0001         SAL171265U5         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-02           QUAN-U05-AS-14         WS-C6506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 208 Rack 0001         SAL17265UP         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 216 Rack	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-01 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U95-AS-19 QUAN-U95-AS-06 QUAN-U95-AS-07 QUAN-U95-AS-07	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C6506-E  WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ FOX133KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000EC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZY8 FOX1338GYXZ	MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-01           QUAN-U05-DR-01         WS-C6506-E         De-Scope 3         1         Bldg 3300 Floor 0001 Room 119 Rack 0001         SAL171635U5         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-02           QUAN-U05-DR-02         WS-C6506-E         DE-Scope 3         1         Bldg 3300 Floor 0001 Room 119 Rack 0001         SAL172264NP         NCR QUAN Nodes         NCR         QUAN UAN U05-AS-14         WS-C4506-E         SAL172264NP         NCR QUAN Nodes         NCR         QUAN UAN U05-AS-15         WS-C4506-E         SPE173000F1         NCR QUAN Nodes         NCR         QUAN U05-AS-15         WS-C4506-E         SPE173000F1         NCR QUAN Nodes         NCR         QUAN U05-AS-15         WS-C4506-E         SPE1730009U         NCR QUAN Nodes         NCR         QUAN U05-AS-12         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN U05-AS-12         De-Scope 2         Bldg 3300 Floor 2 Rm 242B	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-06 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room telco1 Rack 0001 Bldg 3280 Floor 0001 Room Telco1 Rack 0001 Bldg 3280 Floor 0002 Rm ZEast Rack 0001 Bldg 3280 Floor 0003 Rm SER Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338GTB FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GWXZ FXS1733Q0SZ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN QUAN Nodes	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0001 Bldg 3255 Floor 0001 Room ServerRm Rack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338HAEI FOX1338GWXD FOX1338GZZI FXS1735Q2EY FOX1338GWXZ FXS1733QOSZ FOX1338G3LZ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN QUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-DR-01         WS-C6506-E         SAL171635U5         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0000 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 0001 Room ServerRam Rack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room telco1 Rack 0001 Bldg 3280 Floor 0001 Room Telco1 Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001 Bldg 3280 Floor 5 Rm 5East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB FOX1338GTP SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338CTB FOX1338GVZD FOX1338GZZD FXS1735Q2EY FOX1338GYZB FOX1338GWZZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-DR-02         W5-C6506-E         SAL172264NP         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-01 QUAN-U95-AS-08 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3250 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room SF Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTF  FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP58  SAL1633KRTJ  SAL1630HP4Q  FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000DC  FOX1338HAEJ  FOX1338GZZJ  FXS1735Q2EY  FOX1338GZZJ  FXS1733Q0SZ  FOX1338GXZ  FOX1338GWZD  FOX1338GWZD  FOX1338GWZD  FOX1338GZZJ  FXS1733Q0SZ  FOX1338G3LZ  FOX1338G3LZ  FOX1338G3LZ  FOX1338G3KA  SPE1728024Q	MCEN INS QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes NCE QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-14         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 216 Rack 0001         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U04-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3250 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room SF Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GY8 FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7	MCEN INS QUAN Nodes MCEQUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-14         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 216 Rack 0001         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U04-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 00041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 163  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3255 Floor 1 Room ServerFarm Rack 0001  Bidg 3280 Floor 0001 Room telco1 Rack 0001  Bidg 3280 Floor 0001 Room telco1 Rack 0001  Bidg 3280 Floor 0002 Rm ZEast Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm SF Rack 0001  Bidg 3280 Floor 0003 Rm SF Rack 0001  Bidg 3280 Floor 0004 Rm 4West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 5 Rm 5East Rack 0001  Bidg 3280 Floor 5 Rm 5East Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GY8 FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7	MCEN INS QUAN Nodes MCEQUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_216_Rack_0001_         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_242B_Rack_0001_         SPE1730009U         NCR QUAN Nodes         NCR         QUAN QUAN NODES	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-10 QUAN-U05-AS-09 QUAN-U05-AS-11 QUAN-U05-AS-09 QUAN-U05-AS-11	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0010  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRam Rack 0104  Bidg 3255 Floor 0001 Room ServerRam Rack 0104  Bidg 3255 Floor 0002 Room Telco1 Rack 0001  Bidg 3255 Floor 010 Room ServerRam Rack 163  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 21  Bidg 3255 Floor 1 Room 179 Rack 4Row5  BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5  BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3250 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0002 Rm 2East Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm SWest Rack 0001  Bidg 3280 Floor 0004 Rm 4West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 0006 Rm 4West Rack 0001  Bidg 3280 Floor 0007 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Room 119 Rack 0001  Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTG  SAL1633KRTJ  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9 SPE173000D9 SPE173000EC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZZJ FXS1733Q0SZ FOX1338G3LZ SPE173000C7 SAL171635U5	MCEN INS QUAN Nodes NCE QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_242B_Rack_0001_         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-10 QUAN-U05-AS-06 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRar Rack 0001 Bidg 3255 Floor 0001 Room ServerRar Rack 0001 Bidg 3255 Floor 0002 Room FerverRar Rack 163 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3250 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0001 Rm 119 Rack 0001 Bidg 3300 Floor 0001 Rm 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DP SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GY8 FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7 SAL171635U5 SAL1712264NP	MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-06 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-11 QUAN-U05-AS-12 QUAN-U05-AS-13 QUAN-U05-AS-14	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRa Rack 0001 Bidg 3255 Floor 1 Room 16 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 0001 Bidg 3280 Floor 0001 Room telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0007 Rm 5East Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0002 Bidg 3280 Floor 0001 Rm 131 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTG SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DP SPE173000EC FOX1338HAEJ FOX1338GWZD FOX1338GZZJ FXS1735Q2EY FOX1338GZZI FXS1735Q2EY FOX1338G3KA SPE1728024Q SPE173000C7 SAL171635U5 SAL172264NP SPE173000F1	MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-17 WS-C4506-E De-Scope 3 De-Scope 2 Bldg 3300 Floor 3 Rm 312 Rack 0001 FXS1732Q3DT NCR QUAN Nodes NCR QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-24 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-11 QUAN-U05-AS-12 QUAN-U05-AS-13 QUAN-U05-AS-13 QUAN-U05-AS-14 QUAN-U05-AS-15	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0001 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4001 Bidg 3250 Floor 001 Room ServerFarm Rack 4001 Bidg 3280 Floor 0001 Room telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm 2East Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX133KRTB SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZZI FXS1735Q2EY FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1336G3LZ FOX1338G3LZ FOX1336G3LZ FOX1338G3LZ FOX133G3LZ FOX1338G3LZ	MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN

QUAN-U05-AS-16	WS-C4506-E			De-Scope 3				De-Scope 2	Bldg 3300 Floor 3 Rm 322 Rack 0001	SPE173000BY	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-90	WS-C3560V2-24TS-S	1	1	Сосорс			<del>                                     </del>		Bldg_3313_Floor_01_Room_Teco#_Rack_1_	FDO1437V27K	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-28	WS-C3560V2-24TS-S	1	1	1			-		Bldg 3400 Floor 0001 Room Telco1 Rack 0001	FD01437V27K	NCR QUAN Nodes	NCR	QUAN
		1											
QUAN-U05-AS-29	WS-C3560V2-24TS-S	1							Bldg_3500_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X03R	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-14	WS-C4506-E			3				4	Bldg_5001_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3D9	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-13	WS-C4506-E			3				4	Bldg_5002_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024U	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-16	WS-C3560V2-24TS-S	1						4	Bldg_505_Floor_0001_Room_0002_Rack_0001_	FDO1437V11T	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-54	WS-C4503-E		2					4	Bldg_5170_Floor_1_Rm_Telco1_Rack_0001_	FXS1735Q2DD	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-52	WS-C3560V2-24TS-S	1						4	Bldg 5172 Floor 0001 Room 0001 Rack 0001	FDO1643Y2R8	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-27	WS-C3560V2-24TS-S	1							bldg 658 Floor 1 Room 0001 Rack 0001	FDO1437X02B	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-28	WS-C3560V2-24TS-S	1							bldg 660 Floor 1 Room 0001 Rack 0001	FDO1437V26X	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-19	WS-C3560V2-24TS-S	1							Bldg 69 Floor 0001 Room Telco1 Rack 0001	FD01437V13V		NCR	QUAN
		1							0		NCR QUAN Nodes		
QUAN-U08-AS-28	WS-C3560V2-24TS-S	1							Bldg_7_Floor_0001_Room_0001_Rack_0001_	FDO1437X35U	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-30	WS-C3560V2-48TS-E	1	1					4	Bldg_711A_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1X6	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-23	WS-C3560V2-24TS-S	1						4	Bldg_711C_Floor_Telco1_Room_0001_Rack_0001_	FDO1645Y198	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-22	WS-C3560V2-24TS-S	1						2	Bldg_711C_Floor_Telco1_Room_COMM_Rack_0001_	FDO1645Y1A8	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-12	WS-C3560V2-48TS-S	1	1					4	Bldg 715 Floor 0001 Room Telco1 Rack 0001	FDO1633X1B1	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-16	WS-C3560V2-24TS-S	1							Bldg B5-9 Floor 0001 Room 0001 Rack 0001	FDO1437X38P	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-GSAS-01	WS-C3850-48U			3					BLDG GREENSPRINGS FLR 01 RM 10 RN1 U9		951U0G3 MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-AS-05	WS-C3560V2-24TS-S	1							Bldg QTRS C Floor Basement Room Telco1 Rack 1	FDO1645Y190	NCR QUAN Nodes	NCR	QUAN
		1											
QUAN-U08-AS-55	WS-C3560V2-24TS-S	1	1	<del>                                     </del>				4	Bldg_QTRS1_Floor_BASEMENT_Room_0000_Rack_0001_	FDO1437X035	NCR QUAN Nodes	NCR	QUAN
DR			1					1	Russel Knox				
DR			1					1	Russel Knox				
			<u> </u>	<u> </u>	<u></u>	<u> </u>							
	Total	121 52	2 50	237	10	6	0 0	18 950					
** Row #374 location	needs to be identified prior to	placing in-scope for thi	is effort. For now	we'll identify as a	"maybe" / Orange	e until post VSS						1	
	The second secon			l s ii identity us u	a,se , orange		<del> </del>						-
OLIAN 100 AC 01	WC 62750C 24TC 5111									FOC00F1V3VV	MCEN INS Legacy Nodes	NACEN	INC
QUAN-L00-AS-01	WS-C3750G-24TS-E1U									FOC0951Y3XY	5 /	MCEN	INS
	WS-C3750G-24TS-E1U									FOC1224Z19C	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-CB-01	WS-C3750G-48TS-E									FHG1413R0AZ	MCEN INS Legacy Nodes	MCEN	INS
QUAN-U09-GSAS-02	WS-C3850-48U									FOC1951U1LV	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-AS-02	ex4200-48t									BP0210344659	MCEN INS Legacy Nodes	MCEN	INS
QUAN-L00-AS-03	ex8208									CA1710100238	MCEN INS Legacy Nodes	MCEN	INS
QUAN-U99-AS-11a										FOC2120R35P	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-AS-11b	Nexus 3132QV									FOC2120R1DZ	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-DR-01	Nexus9000 C9332PQ									FDO21291CS0	MCEN INS QUAN Nodes	MCEN	
•													INS
QUAN-U99-DR-02	Nexus9000 C9332PQ									FDO21291CQK	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-OS-01	WS-C3750G-48TS-E									FHG1413R0B1	MCEN INS Legacy Nodes	MCEN	INS
QUAN-UDZ-IS-01	WS-C3850-48XS									FOC2035Z1HT	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UDZ-OS-01	WS-C3850-48XS									FOC2035Z1HX	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-04	WS-C4500X-32									JAE203400MW	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-DH-01	3745								Bldg_1999_Floor_0001_Rm_0001_Rack_0001_	FTX1012A398	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DH-02	3745								Bldg 1999 Floor 0001 Room MDF Rack 0001	FTX1110A2C0	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-CO-01	CISCO2921/K9		<del>                                     </del>						Bldg_2008_Floor_0002_Rm_ServerRoom_Rack_001	FTX1748AJ5X	NCR QUAN Nodes	NCR	QUAN
	CISCOZSZI/KS											NCN	
QUAN-U08-DP-03	888								Bldg_2046_Floor_0001_Rm_Telco1_Rack_0001_	FTX1642856Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-19	Nexus5548								Bldg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201NJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-24	Nexus5548								Bidg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201N9	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DP-12	888								Bldg_2100A_Floor_0001_Room_0001_Rack_0001_	FTX1642854U	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-11	888								Bldg_24101_Floor_0001_Room_Telco1_Rack_0001_	FTX1642855Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-13	888								Bldg_24162_Floor_1_Room_Telco1_Rack_1_	FTX1642856M	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DH-02	3745								Bldg_24203_Floor_0001_Room_Telco1_Rack_0001_	FTX1012A38X	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DH-01	3745								Bidg_24204_Floor_0001_Room_105_Rack_0006_	FTX1012A38Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-01	888								Bldg_27005_Floor_0001_Room_Telco1_Rack_0001_	FTX16428561	NCR QUAN Nodes	NCR	
							1			FTX1642856J	NCR QUAN Nodes		QUAN
QUAN-U07-AS-60	WS-C2960-8TC-S						1		Bldg_27028_Floor_1_Room_Telco1_Rack_1_	FOC1722Z2G4		NCR	QUAN
QUAN-U07-DP-03	CISCO2911/K9								Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FTX1644AKYW	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-ES-03	SM-ES2-24								Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FOC16403G1P	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-15	888								Bldg_27219_Floor_2_Room_219_Rack_1_	FTX1642854Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-02	CISCO2911/K9								Bldg_27263_Floor_0001_Room_0001_Rack_0001_	FTX1652A00M	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-ES-02	SM-ES2-24								Bldg_27263_Floor_0001_Room_Telco1_Rack_001_	FOC16507USN	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-04	CISCO2911/K9								BLDG_27410_FLR_01_RM_182_RN2_U30	FTX1644AKXN	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-AS-13	WS-C2960-8TC-S						1		Bldg_3084A_Floor_1_Room_Telco_Rack_1_	FOC1512V375	NCR QUAN Nodes	NCR	QUAN
							1			FOC1512V575 FOC1722Z2G0		NCR	
QUAN-U05-AS-27	WS-C2960-8TC-S						1		Bldg_3085B_Floor_1_Room_Telco1_Rack_1_		NCR QUAN Nodes		QUAN
QUAN-U00-IS-04	WS-C3560-24TS-S								Bldg_3255_Floor_0001_Room_179_Rack_0002_	FDO1239Z0XQ	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-SS-01	WS-C4503-E								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0002_	SPE1447006J	Test_Partition_Realm_Change	#VALUE!	
QUAN-UB1-CB-01	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1229GJFK	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-IS-02	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1045051Z	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U00-IR-01	Nexus9000 C9508 (8 Slot)								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FGE21252B1A	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U00-IR-02	Nexus9000 C9508 (8 Slot)								Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003	FGE21252B1W	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-03	WS-C3560-24TS-S								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FDO1236Y09Q	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-05	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FOX10450523	MCEN INS QUAN Nodes	_	
										IAE10420223		MCEN	INS
QUAN-U00-IS-03	WS-C4500X-32								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0016_	JAE1943032Y	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-IS-01	WS-C4503								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1244GDUX	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-02	WS-C4503								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1224GFZ4	MCEN INS QUAN Nodes	MCEN	INS

QUAN-UB1-OS-01	WS-C6506-E				Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	SAL1630HP4W	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-EO-01	WS-C6506-E				Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0112_	SAL13516P34	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U01-BI-01	ASR1002-X				BLDG_3255_RM_179_ROW_4_RACK_1	FOX1938G7PZ	MARFORRES CLIN Nodes	MARFORRES	CLJN
QUAN-UB1-OR-01	CISCO3945-CHASSIS				Building 3255, Room 179, Row 4, Rack 1, RU1	FTX1644AK5S	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U09-AS-08	WS-C3850-12XS					FCW1949F0Z4,FCW1949C17X	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-IR-01	ASR1004				MCEN-ES	FOX1352GKYQ	MCEN INS Legacy Nodes	MCEN	INS
QUAN-L00-IS-01	WS-C3750G-48TS-E				MCEN-ES	FHG1413R0BJ	MCEN INS Legacy Nodes	MCEN	INS

		OLT Q	UAN-U03-OL-01
BLDG	ONT	COUNT	ONT SW
3			
	709GP	1	ONT709GP.3.21.3
72			
	140C	1	ONT140.1.7.34
1775			
1000	728GP	3	ONT728GP.3.20.7
1999	140C	1	ONT140.1.7.34
2044	1400	1	ON1140.1.7.54
2044	728GP	54	ONT728GP.3.20.7
2076	72001	31	014172001.0.2017
	709GP	1	ONT709GP.3.21.3
2118			
	140C	1	ONT140.1.7.34
2200			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
2202			
	709GP	1	ONT709GP.3.21.3
2203			
	709GP	2	ONT709GP.3.21.3
2204	70000	1	ONT700CD 2 24 2
2207	709GP	1	ONT709GP.3.21.3
2207	709GP	1	ONT709GP.3.21.3
2208	709GP	1	ON1709GF.3.21.3
2200	709GP	1	ONT709GP.3.21.3
2209	70301		01170301.3.21.3
	709GP	1	ONT709GP.3.21.3
2210			
	709GP	1	ONT709GP.3.21.3
2247			
	709GP	1	ONT709GP.3.21.3
2248			
	709GP	1	ONT709GP.3.21.3
2249			
2224	709GP	1	ONT709GP.3.21.3
2301	72000	1	ONT720CD 2 20 7
3077	728GP	1	ONT728GP.3.20.7
3077	728GP	1	ONT728GP.3.20.7
3086	72001		01172001.3.20.7
3000	709GP	1	ONT709GP.3.21.3
3230			
	709GP	1	ONT709GP.3.21.3
3232			
	709GP	1	ONT709GP.3.21.3
3240			
	140C	1	ONT140.1.7.34
3259			
0.5	709GP	1	ONT709GP.3.21.3
3399			ONTEROOD A SA S
24204	709GP	1	ONT709GP.3.21.3
24204	70000		ONT700GD 2 21 2
27282	709GP	1	ONT709GP.3.21.3
21202	709GP	1	ONT709GP.3.21.3
28000	703GP	1	
	709GP	1	ONT709GP.3.21.3
28009	230,		
	709GP	1	ONT709GP.3.21.3
	•		

			UAN-U07-OL-01
LDG 999	ONT	COUNT	ONT SW
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4005	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4006			_
4008	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4000	729GP	2	ONT729GP.3.20.7;ONT729_V005591
4009	729GP	3	ONT729GP.3.20.7;ONT729_V005591
4015	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4017	729GF	_	ON1729GF.3.20.7,ON1729_V003391
4018	729GP	2	ONT729GP.3.20.7;ONT729_V005591
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4142	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4144			_
4157	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4164	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4164	729GP	4	ONT729GP.3.20.7;ONT729_V005591
4180	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4191	72301	_	
4193	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	3	ONT729GP.3.20.7;ONT729_V005591
4194	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4195	720CD	1	ONT720CD 2 20 7:ONT720 V00FF01
4196	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4197	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4198	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4199	72000		
4200	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4204	729GP	1	ONT729GP.3.20.7;ONT729_V005591
.234	729GP	1	ONT729GP.3.20.7;ONT729_V005591
7130	729GP	3	ONT729GP.3.20.7;ONT729_V005591
7282			
7130C	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
OTAL		38	
OTAL		31	

		OLT Q	UAN-U08-OL-01
BLDG	ONT	COUNT	ONT SW
69			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
122			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
1304	720CD	1	ONT720CD 2 20 7:ONT720 1/00FF01
1775	729GP		ONT729GP.3.20.7;ONT729_V005591
	729GP	5	ONT729GP.3.20.7;ONT729_V005591
1999			, =
	140C	1	ONT140.1.7.34
	140W	4	ONT140.1.7.34
	729GP	3	ONT729GP.3.20.7;ONT729_V005591
2033	720.00	1	ONIT 2000 2 20 7 ONIT 20 MOSE 504
2044	729GP	1	ONT729GP.3.20.7;ONT729_V005591
2044	729GP	17	ONT729GP.3.20.7;ONT729_V005591
2076	72301	17	014172501.5.20.7,0141725_4005551
	709GP	1	ONT709GP.3.21.3
2117			
	709GP	1	ONT709GP.3.21.3
2187			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
2200	700.00	1	ONT700CD 2 24 2
2301	709GP	1	ONT709GP.3.21.3
2301	729GP	34	ONT729GP.3.20.7;ONT729_V005591
3065	72301	34	ON1723G1 .3.20.7,ON1723_V003331
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3070			_
	729GP	4	ONT729GP.3.20.7;ONT729_V005591
3186			
2202	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3202	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3228	729GF		ON1729GF.3.20.7,ON1729_V003391
	709GP	1	ONT709GP.3.21.3
3229			
	728GP	1	ONT728GP.3.20.7
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3230	-06-		017700000000000000000000000000000000000
2240	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3240	729GP	1	ONT729GP.3.20.7;ONT729 V005591
3255	72308		
	709GP	1	ONT709GP.3.21.3
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
3259			
	709GP	3	ONT709GP.3.21.3
3280	72005		ONITZOCO Z 20 Z ONITZOC MOSECC
3300	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3300	709GP	1	ONT709GP.3.21.3
3311	. 5551		
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
3312			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3313			
2244	729GP	1	ONT729GP.3.20.7;ONT729_V005591
3314	729GP	2	ONT729GP.3.20.7;ONT729_V005591
	/29GP		ON1723GF.3.20.7;ON1723_V005591

		OLT QU	AN-U09-OL-01
BLDG	ONT	COUNT	ONT SW
1999			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
26100			
	709GP	1	ONT709GP.3.21.3
26164			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
26183			
	709GP	1	ONT709GP.3.21.3
27170			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
27277			
	729GP	6	ONT729GP.3.20.7;ONT729_V005591
27278			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
27277A			
	709GP	1	ONT709GP.3.21.3
27290TX			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
TOTAL		16	
TOTAL		8	
TOTAL		8	

1//2			
	709GP	1	ONT709GP.3.21.3
<b>2189A</b>			
	709GP	1	ONT709GP.3.21.3
2201A			
	709GP	1	ONT709GP.3.21.3
2203A			
	709GP	1	ONT709GP.3.21.3
3230T			
	709GP	1	ONT709GP.3.21.3
TOTAL		92	
TOTAL		28	
TOTAL		64	

140C
140W
709GP
728GP
729GP

Total 24 port switches Needed	De-Scope	146
Total SFP's	De-Scope	584

5001			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
5002			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
5003			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
2189A			
	709GP	1	ONT709GP.3.21.3
2189N			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
3083A			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
TOTAL		107	
TOTAL		40	<del>-</del>
TOTAL		67	

<sup>\*\*</sup> Red-Highlighed items already have MCEN-N presense within those building arleady and are deemed out-of-scope until VSS.

<sup>\*\*</sup> All other legacy ONT devices will be replaced with C9300L-24P-4X-A switches

<b>Host Name</b>	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	/ mitsc
INHZ-U00-IR-01	INHZ	Router	Cisco	CISCO2911/K9						Naval Surface Warfare Center Indian Head MD Bldg 290	FTX1644AL07	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-IR-04	INHZ	L3Switch	Cisco	WS-C3750G-12S-E						Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X2G5	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-IS-01	INHZ	Router	Cisco	SM-ES2-24						Naval Surface Warfare Center Indian Head MD Bldg 290	FOC16403FPC	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-OS-03	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S						Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X1Z8	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U01-AS-01	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_521_Floor_1_Rm_Warehouse_Rack_1	FDO1436X243	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-02	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-S			1			4 Bldg_700_Floor_1_Room_RouterRm_Rack_1_	FDO1623X01R	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-03	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-E			1			4 Bldg_2083_Floor_1_Room_storagecloset_Rack_1_	FDO1529X1YG	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-04	INHZ	L3Switch	Cisco	WS-C4506-E				3		4 Bldg_901_Floor_1_Room_112_Rack_1_	SPE173000BG	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-05	INHZ	L3Switch	Cisco	WS-C4506-E				3		2 Bldg_901_Floor_1_Room_Mail_Rack_1_	SPE173000CR	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-06	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_290_Floor_1_Rm_MSF_Rack_AccessCab2	FDO1436X2S3	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-07	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_D61_Floor_1_Room_Boiler_Rack_1_	FDO1645Y140	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-08	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_870_Floor_1_Room_1_Rack_Wallrack_	FDO1437X03Q	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-DS-01	INHZ	L3Switch	Cisco	WS-C3750G-12S-S					2	Bldg_290_Floor_1_Room_MSF_Rack_8_	FDO1402Y2EK	NCR QUAN Nodes	NCR	QUAN
				Total		4	2	6	2	30				

Host Name	site	<b>Device Type</b>	<b>Device Vendor</b>	Device Model	24 Port	48 Port	C9300-48P-A 3X	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	y mitsc
PKWY-U00-IR-01	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1423GAQ3	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IR-02	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1423GAQ2	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S					MCSC Tech Parkway Stafford VA	FDO1403X0CU	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IS-04	PKWY	L3Switch	Cisco	WS-C3560V2-24TS-S					MCSC Tech Parkway Stafford VA	FDO1437X3GW	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OR-01	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1612GSN4	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OR-02	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1612GSNH	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S					Bldg_PKWY_Floor_0001_Room_Telco1_Rack_0001	FDO1403X0CP	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U01-AS-01	PKWY	L3Switch	Cisco	WS-C4506-E				3	4 Bldg_105_Floor_0001_Room_0004_Rack_0001_	FOX1415G443	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-02	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_0001_Room_0004_Rack_0001_	SPE152500N1	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-03	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_2_Room_PG10_Rack_5_	FOX1429G267	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-04	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_2_Room_MRAP_Rack_4_	FOX1405G60H	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-05	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105TechPKY_Floor_GCSS_Room_Telco1_Rack_0003_	FOX1428H2JX	NCR QUAN Nodes	NCR	QUAN
				Total			1	.5	12				

<b>Host Name</b>	site	Device Type	<b>Device Vendor</b>	Device Model C9300L-24	C9300L-48	C9300-48P-A 3X SFP-10G-LR++	-= Device Location	Serial Number	Asset Tag Partition	count company	mitsc
SCPA-U00-IR-01	SCPA	Router	Cisco	3845			MCSC Barrett Heights Stafford VA Bldg 51	FTX1437AJGC,FOC12085P69	MCEN INS QUAN Nodes	5 MCEN	INS
SCPA-U00-OR-01	SCPA	Router	Cisco	3845			MCSC Barrett Heights Stafford VA Bldg 51	FTX1437AJGF,FOC12085P6A	MCEN INS QUAN Nodes	5 MCEN	INS
SCPA-U01-AS-01	SCPA	L3Switch	Cisco	WS-C4506-E		3	4 Bldg_51BH_Floor_0002_Room_Telco1_Rack_0001_	SPE17280251	NCR QUAN Nodes	4 NCR	QUAN
				Total		3	4				

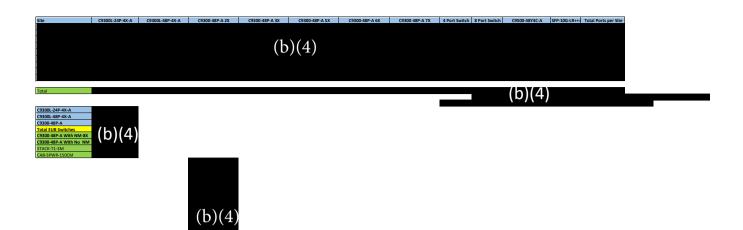
<b>Host Name</b>	site	Device Type	<b>Device Vendor</b>	Device Model	C9300L-24	C9300L-48	C9300-48P-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
BAND-U00-IR-01	BAND	Router	Cisco	CISCO2911/K9					Bldg_1_Floor_Basement_Room_Basement_Telco_Rack_1_	FTX1644AKUW	MCEN INS QUAN Nodes	MCEN	INS
BAND-U00-IS-01	BAND	Router	Cisco	SM-ES2-24					Bldg_1_Floor_Basement_Room_BasementTelco_Rack_1_	FOC16418358	MCEN INS QUAN Nodes	MCEN	INS
BAND-U00-OR-01	BAND	Router	Cisco	ASR1002-X					Bldg_1_Floor_Basement_Room_Telco Rm_Rack_1_	FOX1829G0ZX	MCEN INS QUAN Nodes	MCEN	INS
BAND-U01-AS-01	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S			De-Scope 1	De-Scope 4	Bldg_1_Floor_Basement_Room_TelcoRm_Rack_1_	FDO1437V253	HQMC QUAN Nodes	HQMC	QUAN
BAND-U01-AS-02	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1			De-Scope 2	Bldg_1_Floor_1_Room_Lan RM_Rack_1_	FDO1621X11M	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-03	BAND	L3Switch	Cisco	WS-C3560V2-48TS-S		De-Scope 1		De-Scope 2	Bldg_1_Floor_2_Room_WireCloset_Rack_1_	FDO1623X01P	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-05	BAND	L3Switch	Cisco	WS-C3560X-48T-S		De-Scope 1		De-Scope 2	Bldg_1_Floor_2_Room_Telco Rm_Rack_1_	FDO1913P09U	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-06	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1			De-Scope 2	Bldg_1_floor_Garage_Room_StorageRm_Rack_1_	FDO1437V25B	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-DS-01	BAND	L3Switch	Cisco	WS-C3750G-12S-S					Bldg_1_Floor_Basement_Room_TelcoRM_Rack_1_	FDO1408X10T	HQMC QUAN Nodes	HQMC	QUAN

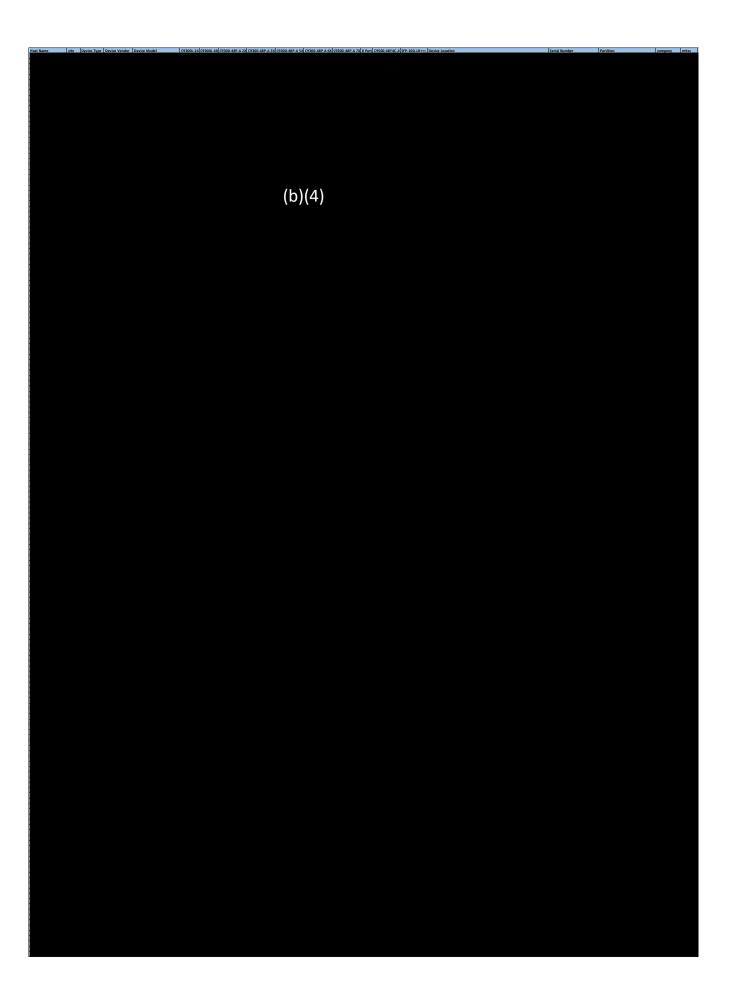
<sup>\*\*</sup> Row 10 (WS-3750G-12S-S) can be taken out of scope since all access switches will connect to row 5 (C9300-48P-A).

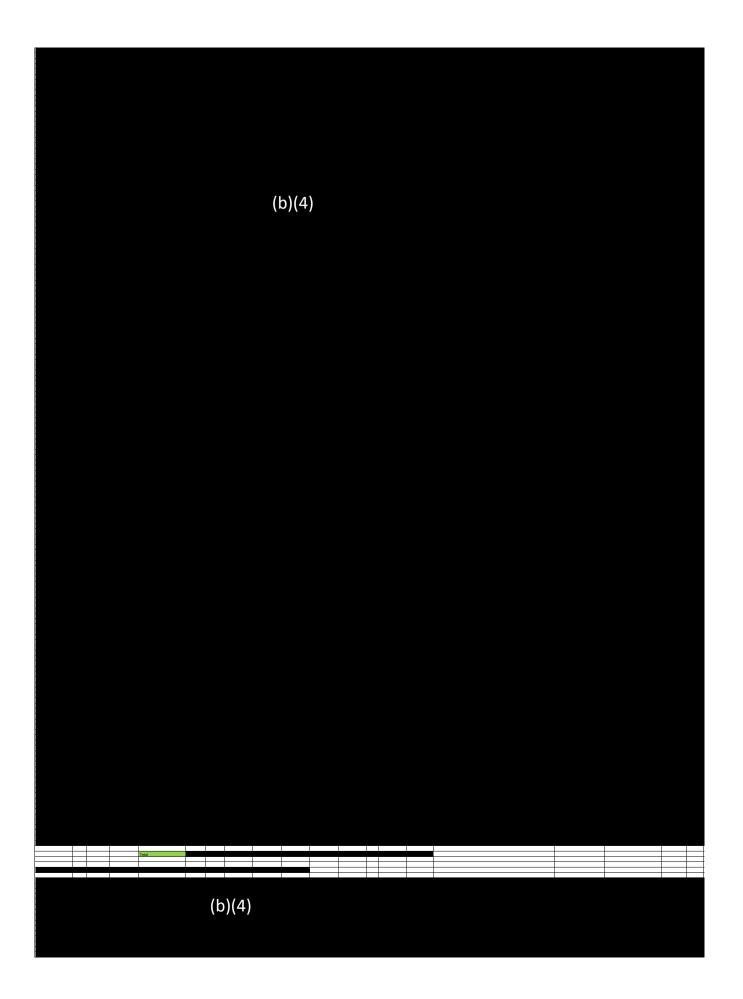
Host Name	site	Device Type	<b>Device Vendor</b>	Device Model	24 Port	48 Port	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
BRRK-U00-IR-01	BRRK	Router	Cisco	CISCO2921/K9							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AJKD	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IR-02	BRRK	Router	Cisco	CISCO2911/K9							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AKRR	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-01	BRRK	Router	Cisco	SM-ES2-24							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC16403FY5	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-02	BRRK	Router	Cisco	SM-ES2-24							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC1641834K	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_700_Floor_2_Room_Server_Rack_2_	FDO1436X1ZL	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-OR-01	BRRK	Router	Cisco	ASR1002-X							Bldg_700_Floor_2_Room_Server_Rack_3_	FOX1830GSKX	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-OS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_700_Floor_2_Room_Server_Rack_3_	FDO1436X265	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U01-AS-01	BRRK	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 4	Bldg_700_Floor_1_Room_S1_Rack_1_	SPE173400CX	HQMC QUAN Nodes	HQMC	QUAN
BRRK-U01-AS-02	BRRK	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 2	Bldg_700_Floor_2_Room_mfd_Rack_1_	SPE173000ET	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-03	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_9_Floor_Basement_Room_LAN Room_Rack_1_	FXS1733Q0TH	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-04	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_20_Floor_Garage_Room_LanRoom_Rack_1_	FXS1735Q2F2	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-05	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_21_Floor_1_Room_1_Rack_1_	FXS1733Q0YY	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-06	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS1_Floor_Basement_Room_Comm_Rack_1_	FDO1436X2SJ	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-07	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS2_Floor_Basement_Room_Comm_Rack_1_	FDO1436X26H	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-08	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS3_Floor_Basement_Room_Comm_Rack_1_	FDO1436X1SK	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-09	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS4_Floor_Basement_Room_Comm_Rack_1_	FDO1436X3J4	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-10	BRRK	L3Switch	Cisco	WS-C3560V2-48TS-S		De-Scope 1				De-Scope 4	Bldg_CMC_Floor_Basement_Room_CommRm_Rack_1_	FDO1630X009	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-DS-01	BRRK	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CK	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-DS-02	BRRK	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CS	HQMC QUAN Nodes	HQMC	QUAN
				Total		0	0	0	0	0	0				

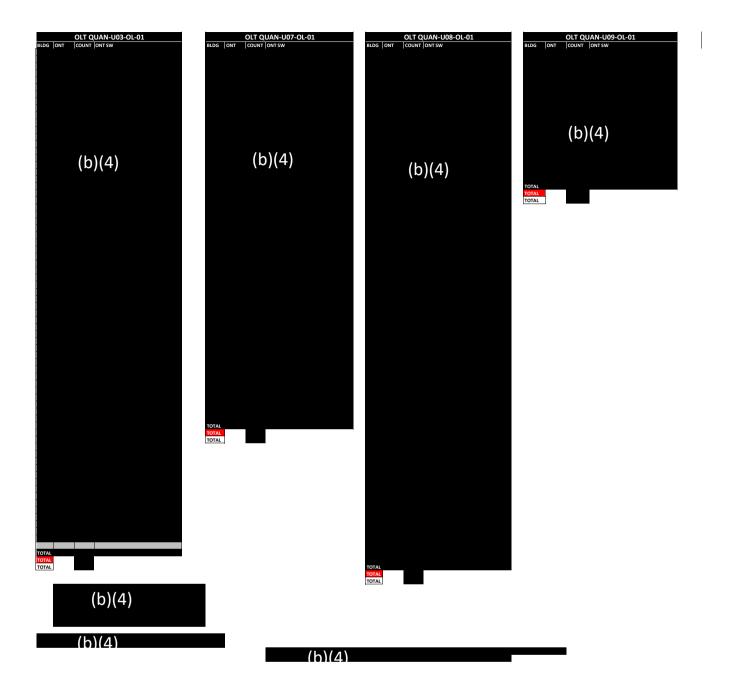
Host Name	site	Device Type	<b>Device Vendor</b>	Device Model	C9300L-24	C9300L-48	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	/ mitsc
WNYZ-L00-CB-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U								FOC1110Z342	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-CB-02	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U								FOC0935U0UT	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-CB-03	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-S1U								FOC1030Y47D	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-IR-01	WNYZ	Router	Cisco	ASR1002-X								FOX1830GSKY	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-IS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U							MCEN-ES	FOC1110Z20E	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-OR-01	WNYZ	Router	Cisco	ASR1006								FXS1817Q2D3	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-OS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U							MCEN-ES	FOC1110Y2BD	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-01	WNYZ	Router	Cisco	CISCO2911/K9							Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FTX1644AKZ6	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-02	WNYZ	Router	Cisco	CISCO2911/K9							Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FTX1644AL58	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-04	WNYZ	L3Switch	Cisco	WS-C3750G-12S-E							Bldg_220_Floor_2_Room_220_Rack_1_	FDO1436X2HF	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IS-01	WNYZ	Router	Cisco	SM-ES2-24							Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FOC17440MJX	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IS-02	WNYZ	Router	Cisco	SM-ES2-24							Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FOC17440MG6	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-OS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_196_Floor_2_Room_ServerFarm_Rack_2/RowA_	FDO1529X1J2	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U01-AS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_196_Floor_3_Room_302_Rack_1_	FDO1645Y12P	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-04	WNYZ	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 4	Bldg_220_Floor_2_Room_220_Rack_1_	FOX1346GVRV	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-05	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_211_Floor_1_Room_Telco	FDO1542X352	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-06	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	De-Scope 1					De-Scope 4	Bldg_196_Floor_2_Room_243_Rack_16_	FOC1209Z4UT	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-07	WNYZ	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_169_Floor_1_Room_Storage_Rack_1_	FXS1735Q2E7	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-08	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_Qtrs V_Floor_2_Room_upstair_Rack_1_	FDO1645Y135	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-DS-01	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2EB	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-DS-02	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2FX	HQMC QUAN Nodes	HQMC	QUAN
				Total		0		0	0	0	n				

Host Name	site	<b>Device Type</b>	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
ANNZ-U00-IR-01	ANNZ	Router	Cisco	CISCO3925-CHASSIS						Bldg_72_Floor_1_Room_140_Rack_1_	FTX1644AHV3	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U00-IS-01	ANNZ	Router	Cisco	SM-ES2-24						Bldg_72_Floor_1_Room_140_Rack_1_	FOC16403FQA	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U00-OS-03	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S						Bldg_72_Floor_1_Room_143_Rack_1_	FDO1436X26E	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U01-AS-02	ANNZ	L3Switch	Cisco	WS-C4506-E				3		4 Bldg_351_Floor_1_Room_Admin_Rack_1_	FXS1732Q0DX	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-AS-03	ANNZ	L3Switch	Cisco	WS-C3560-48TS-S			1			2 Bldg_351_Floor_2_Room_1_Rack_1_	FDO1431Z0YP	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-04	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				2 Bldg_352B_Floor_1_Room_1_Rack_1_	FDO1632X2QY	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-05	ANNZ	L3Switch	Cisco	WS-C3750G-24TS-S		1				2 Bldg_352A_Floor_1_Room_1_Rack_1_	CAT1050RGD2	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-99	ANNZ	Router	Cisco	C891F-K9						Bldg_351_Floor_1_Room_120_Rack_FSRDesk	FJC2034L1RJ	MARFORRES CLJN Nodes	MARFORRES	CLJN
ANNZ-U01-BI-01	ANNZ	Router	Cisco	CISCO2921/K9						VERIZON-CIRCUIT-ID (BCBKSDH60001) T-1	FTX1424AHN8	MARFORRES CLIN Nodes	MARFORRES	CLJN
ANNZ-U01-DH-01	ANNZ	Router	Cisco	2811	l					Bldg_351_Floor_1_Room_109_Rack_1_	FTX1436A0XC	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-DP-02	ANNZ	Router	Cisco	CISCO2911/K9						Bldg_400A_Floor_1_Room_1_Rack_1_	FTX1644AKYX	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-ES-02	ANNZ	Router	Cisco	SM-ES2-24						Bldg_400A_Floor_1_Room_1_Rack_1_	FOC1614709K	HQMC QUAN Nodes	HQMC	QUAN
	•													
				Total		2	1	3	0	10				











Host Name site Device Type Device Vendor Device Model 24 Port 48 Port C9300-48 P-A 3X SFP-10G-LR++\* Device Location Serial Number Partition company mits:

(b)(4)

Total (b)(4)

Host Name site Device Type Device Vendor Device Model C9300L-24 C9300L-24 C9300L-88 C9300-48P-A 3X SFP-10G-4R++= Device Location Serial Number Asset Tag Partition count company mits (b)(4)

Total (b)(4)

Host Name site Device Type Device Vendor Device Model C9300L-24 C9300L-48 C9300-48P-A SFP-10G-LR++ Device Location Serial Number Partition company mits:

(b)(4)

Host Name	site Device Type Device Vendor	Device Model	24 Port	48 Port	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company mitsc
					(b)(4)							
		Table		(6)(4)								



Host Name	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
							(b)(4)							
				Total		(b)(/I)								

# FOR MARINE CORPS BASE QUANTICO QUANTICO, VIRGINIA

3 Mar 2021



## **Prepared By:**

# **UNITED STATES MARINE CORPS Marine Corps Systems Command**

Supporting Establishment Systems PMM170 Network and Infrastructure

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PERFORMANCE SPECIFICATION	MCB QUANTICO	Version 1 with
changes		

QUANTICO, VIRGINIA

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### 1 GENERAL

This is a Firm-Fixed-Price (FFP) Contract, for the Network Communications Infrastructure (NCI) program office to modernize the enterprise communications infrastructure aboard Marine Corps Base (MCB) Quantico, VA.

The services included in this FFP contract will be non-personal services. The Government shall not exercise any supervision or control over the contract service providers performing the services herein. Such contract service providers shall be accountable solely to the contractor who, in turn is responsible to the Government. The Government will describe the specific performance requirements at the task and delivery order level, but all work performed will fall within the general scope described herein.

### 1.1 DESCRIPTION OF SERVICES / INTRODUCTION

The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform modernization and sustainment services as defined in this Performance Specification except for those items specified as Government Furnished Property (GFP) and services. The contractor shall perform to the standards articulated in this contract.

### 1.2 BACKGROUND

Traditionally, Marine Corps Systems Command (MCSC), NCI Program Office (previously known as the Base Telecommunications Infrastructure) has been responsible for the upgrade and expansion of the Marine Corps' legacy Time Division Multiplexing (TDM) voice systems, Synchronous Optical Network (SONET), and outside plant (OSP) cable infrastructure. These previous efforts were typically executed via individual FFP Contracts. Due to advancing technologies and increased requirements, the BTI mission expanded to include the complete modernization/replacement of all Low Speed Time Division Multiplexing (LSTDM) technologies. More recently, the NCI mission has expanded to include the modernization of the Distribution and Access Layer Transport infrastructure to the End-User Building (EUB). As a result, NCI is now responsible for the modernization and sustainment of the Base Area Network (BAN)/Local Area Network (LAN) and the Unified Communications (UC) at every Marine Corps Installation (MCI).

### 1.3 OBJECTIVES

The objective of this initiative is the complete modernization of the Base Telecommunications Infrastructure (BTI) aboard MCB Quantico in accordance with (IAW) the Marine Corps Wide Area Network (WAN) Transport Implementation Plan that aligns with the normalization of the Joint Information Environment (JIE). This will be realized through the enterprise-wide deployment of homogeneous systems and subsystems in order to minimize operation demands on Installation personnel and simplify sustainment activities for the NCI Program Office. This modernization effort shall include the BAN Transport and Unified Communications aboard MCB Quantico that will support the details in Sections 5.1 and 8.2 of this PWS. The overall intent of this PWS is to establish a standardized enterprise solution with the flexibility for a System Integrator (SI) to support sustainment activities that includes technical refresh and unforeseen systems upgrades to hardware, software, and ancillary equipment.

### 1.4 SCOPE

This PWS establishes and defines the requirements for the contractor to Engineer, Furnish, Install, Secure, Test (EFIST) and make operational a turnkey BAN Transport and Enterprise UC Voice solution for the modernization of the existing communication infrastructure at MCB Quantico – or other USMC facilities as defined by the Government – to include enterprise integration and convergence. The contractor shall also provide all ancillary equipment, labor, training, software, firmware, licenses, grounding, and interfaces associated with these systems to deliver a complete turnkey solution. The contractor shall provide all supporting documentation associated with the delivered solution.

### 1.5 ORDERING PERIOD / PERIOD OF PERFORMANCE

The delivery for this modernization effort will be 18 months after contract award.

### 1.6 GENERAL INFORMATION

### 1.6.1 RECONGNIZED HOLIDAYS

The contractor is not required to perform work or services on the Federal Government holidays identified below.

New Year's Day

Martin Luther King Jr.'s Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

### 1.6.2 HOURS OF OPERATION

The contractor shall provide services IAW Marine Corps Systems Command Order 5530.2, working hours for on-site contractors shall be within 0630-1800 local time. All work shall typically be performed within the Government-defined core hours. There may be a need for occasional work outside of normal Government-defined core hours. No overtime will be authorized.

### 1.6.3 PLACE OF PERFORMANCE

The work to be performed under this FFP Contract will be performed at MCB Quantico in Quantico, VA.

### 1.6.4 TYPE OF CONTRACT

The Government will award a FFP Contract issued for specific work at MCB Quantico.

### 1.6.5 PHYSICAL SECURITY

The contractor shall be responsible for safeguarding all Government equipment, information and property provided for contractor use. At the close of each work period, Government facilities, equipment, and materials shall be secured.

### 1.6.6 SECURITY REQUIREMENTS

The information provided to the contractor will be unclassified and/or Controlled Unclassified Information (CUI). Certain contractors will be required to perform IT-I/II duties that require favorably adjudicated Tier 5/3 Level investigations. The Defense Counterintelligence Security Agency (DCSA) will not authorize contractors to submit the necessary Tier Level investigations, solely in support of IT level designation requirements, without a valid classified requirement as specified in a DD-254. This effort does not warrant a DD-254, therefore the Government Contracting Activity Security Office (GCASO) is required to submit any required investigations in support of IT level designations. The contractor is required to provide a roster of prospective contractor employees performing IT Level II and/or IT Level I duties to the MCSC Contracting Officer's Representative (COR). This roster shall include: full names, Social Security Numbers, IT Level required, e-mail address, and phone number for each contractor requiring investigations in support of IT Level designations. The COR will verify the IT Level requirements and forward the roster to the GCASO. Contractors found to be lacking required investigations will be contacted by the GCASO.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) via encrypted e-mail to MCSC\_Security@usmc.mil or 703-432-3374/3952 if any contractor performing on this contract receives an unfavorable adjudication. The FSO must also notify the PERSEC Office, within 24 hours, of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor performing on this contract, if they have been granted an IT designation, issued a CAC and/or a MCSC Building Badge. The FSO shall notify the Government (written notice) within 24 hours of any contractor personnel added or removed from the contract that have been granted IT designations, issued a Common Access Card (CAC) and/or a MCSC Building badge/access.

### 1.6.6.1 DEFENSE BIOMETRIC IDENTIFICATION CARD

Certain contractors may require the issuance of a Defense Biometric Identification (DBID) card in order to gain access to MCB Quantico. The Contracting Officer Representative (COR) will identify and approve only those contractor personnel performing on this contract that require a DBID card in order to perform their job function aboard the base.

### 1.6.6.2 VENDOR SCREENING

The contractor shall return a completed Contractor Screening Form, which will be provided as Attachment (5) to the SF1449, in order to identify all contractor personnel requiring access to Installations/Detachments, base facilities, and/or handling Government assets. This form includes personal identification information for respective contractor personnel and shall be either: hand delivered to the Installation Technical Support Officer (TSO) or sent in a password protected document. If the vendor screening form is sent via e-mail, the password shall be provided and sent in a separate email. The contractor shall provide a completed form to the TSO no later than two (2) weeks prior to the start of work for processing and vetting by the Installation/Detachment Security Office. The Security Office will respond with any favorable or unfavorable screening outcomes as they are received from the Installation Provost Marshall's Office (PMO). Any personnel receiving an unfavorable outcome will not be authorized access to the Installation for the purpose of performing work related to this contract.

All required escorts shall be provided by Base, G/S-6 staff. It is the contractor's responsibility to secure any facility upon exiting the facility for which they are provided a key and unescorted access. The Base, G/S-6 will exercise security supervision over all contractor personnel working on this project and will provide security support to the contractor. The contractor shall comply with all emergency rules and procedures established for this Base. All personnel aboard the Base are subject to random inspections of their vehicles, personal items, and of themselves. Consent to these inspections is considered to have been given upon entrance to the base and its facilities. Photography, videotaping, and/or audio recordings aboard the base are strictly prohibited without proper authorization by the local Base authorities.

### 1.6.6.3 COMMON ACCESS CARD

The COR will identify and only approve those contractor employees performing on this contract that require CACs in order to perform their job function. In accordance with Headquarters, United States Marine Corps issued guidance relative to Homeland Security Presidential Directive – 12 (HSPD-12), all personnel must meet eligibility criteria to be issued a CAC. In order to meet the eligibility criteria, contractor employees requiring a CAC must obtain and maintain a favorably adjudicated Personnel Security Investigation (PSI). Prior to authorizing a CAC, the employee's Joint Personnel Adjudication System (JPAS) record must indicate a completed and favorably adjudicated PSI or (at a minimum) that a PSI has been submitted and accepted (opened). The minimum acceptable investigation is a T-1 or a National Agency Check with Written Inquiries (NACI). If a contractor employee's open investigation closes and is not favorably adjudicated, the CAC must be immediately retrieved and revoked. CACs are not issued for convenience.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) at 703-432-3490/3952 if any contractor performing on this contract receives an unfavorable adjudication after being issued a CAC. The FSO must also immediately notify the PERSEC Office of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor issued a CAC, regardless of whether a JPAS Incident Report is submitted.

Each CAC is issued with a "ctr@usmc.mil" e-mail account that the individual contractor is responsible to keep active by logging in on a regular basis (at least twice a month), sending an e-mail and clearing any unneeded e-mails. Contractors issued a CAC are prohibited from "auto- forwarding" e-mail from their .mil e-mail account to their .com e-mail account. If the "ctr@usmc.mil" e-mail account is not kept active, G-6 will deactivate the account and the CAC will also lose its functionality. Contractor employees shall solely use their government furnished "ctr@usmc.mil" e-mail accounts for work supporting the USMC, conducted in fulfillment of this contract, and shall not use a contractor supplied or personal e-mail account to conduct FOUO government business. The use of a contractor or personal e-mail account for contractor business or personal use is allowed, but only when using cellular or a commercial internet service provider.

If a contractor loses their eligibility for a CAC due to an adverse adjudicative decision, they have also lost their eligibility to perform on MCSC contracts.

### 1.6.6.4 MARINE CORPS ENTERPRISE NETWORK COMPUTER ACCESS

Contractor personnel accessing Marine Corps Systems Command Computer systems must maintain compliance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access

Guide. Contractor personnel will submit a DD Form 2875, Systems Authorization Access Request (SAAR), and completion certificates for the CYBERC course located on MarineNet at https://www.marinenet.usmc.mil. The CYBERC course consists of the DoD Cyber Awareness Challenge and Department of the Navy Annual Privacy Training on Personally Identifiable Information (PII). Contractors will have to create a MarineNet account in order to acquire the required training.

Marine Corps Enterprise Network (MCEN) Information Technology (IT) resources if provided are designated For Official Use Only (FOUO) and other limited authorized purposes. DoD military, civilian personnel, consultants, and contractor personnel performing duties on MCEN information systems may be assigned to one of three position sensitivity designations.

- ADP-I (IT-1): Favorably adjudicated T-5, T5R, (formerly known as Single Scope Background Investigation (SSBI)/SSBI Periodic Reinvestigation (SBPR)/SSBI Phased Periodic Reinvestigation (PPR))
- 2. ADP-II (IT-2): Favorably adjudicated T-3, T3R, (formerly known as Access National Agency Check and Inquiries (ANACI)/ National Agency Check with Law and Credit (NACLC)/Secret Periodic Review (S-PR))
- 3. ADP-III (IT-3): Completed T-1, (formerly known as National Agency Check with Inquiries (NACI))

All privileged users (IT-1) must undergo a T-5 investigation regardless of the security clearance level required for the position. Privileged users must maintain the baseline Cyberspace Workforce Cybersecurity Technical (CST) or Cybersecurity Manager (CSM) relating to the position being filled. Privileged users are defined as anyone who has privileges over a standard user account as in system administrators, developers, network administrators, code signing specialist and Service Desk technicians.

All MCEN users must read, understand, and comply with policy and guidance to protect classified information and Controlled Unclassified Information (CUI), and to prevent unauthorized disclosures in accordance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access Guide and CJCSI 6510.01F.

MCEN Official E-mail Usage - MCEN IT resources are provided FOUO and other limited authorized purposes. Authorized purposes may include personal use within limitations as defined by the supervisor or the local command. Auto forwarding of e-mail from a MCEN Non-classified Internet Protocol Network MCEN-N) to commercial or private domains (e.g., Hotmail, Yahoo, Gmail, etc.) is strictly prohibited. E-mail messages requiring either message integrity or non-repudiation are digitally signed using DoD Public Key Infrastructure (PKI). All e-mail containing an attachment or embedded active content must be digitally signed.

MCEN users will follow specific guidelines to safeguard CUI, including PII and FOUO. Non-official e-mail is not authorized for and will not be used to transmit CUI to include PII and Health Insurance Portability and Accountability Act (HIPAA) information. Non-official e-mail is not authorized for official use unless under specific situations where it is the only mean for communication available to meet operational requirements. This can occur when the official MCEN provided e-mail is not available but must be approved prior to use by the Marine Corps Authorizing Official (AO).

All personnel will use DoD authorized PKI certificates to encrypt e-mail messages if they contain any of the following:

- 1. Information that is categorized as FOUO or Sensitive but Unclassified (SBU).
- 2. Any contract sensitive information that normally would not be disclosed to anyone other than the intended recipient.
- 3. Any privacy data, PII, or information that is intended for inclusion in an employee's personal file or any information that would fall under the tenets of MSGID: DOC/5 USC 552A. Personal or commercial e-mail accounts are not authorized to transmit unencrypted CUI or PII.
- 4. Any medical or health data, to include medical status or diagnosis concerning another individual.
- 5. Any operational data regarding status, readiness, location, or deployment of forces or equipment.

### 1.6.6.5 KEY CONTROL

The contractor shall establish and implement methods of making sure all keys/key cards issued to the contractor by the Government are not lost or misplaced and are not used by unauthorized persons.

**NOTE:** All references to keys include key cards.

No keys issued to the contractor by the Government shall be duplicated. The contractor shall develop procedures covering key control that shall be included in the Quality Control Plan. Such procedures shall include turn-in of any issued keys by personnel who no longer require access to locked areas. The contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the Contracting Officer.

In the event keys, other than master keys, are lost or duplicated, the contractor shall, upon direction of the Contracting Officer, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be deducted from the next payment due the contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from the next payment due the contractor.

The contractor shall prohibit the use of Government issued keys/key cards by any persons other than the contractor's employees. The contractor shall prohibit the opening of locked areas by contractor employees to permit entrance of persons other than contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the Contracting Officer.

### 1.6.6.6 LOCK COMBINATIONS

The contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the contractor's Quality Control Plan.

### 1.6.7 POST AWARD CONFERENCE/PERIODIC MEETINGS

The contractor agrees to attend any post award conference convened by the contracting activity in accordance with Federal Acquisition Regulation Subpart 42.5. The Contracting Officer, Contracting Officer's Representative (COR), and other Government personnel, as appropriate, may meet periodically with the contractor to review the contractor's performance. At these meetings the Contracting Officer will apprise the contractor of how the Government views the contractor's performance and the contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the Government.

### 1.6.8 CONTRACTING OFFICER'S REPRESENTATIVE

The COR(s) will be identified by separate letter(s) and monitors all technical aspects of the FFP Contract, task and delivery orders, and assists in contract administration. The COR(s) is authorized to perform the following functions: assure that the contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the contractor concerning technical aspects of the contract; issue written interpretations of technical requirements, including Government drawings, designs, specifications; monitor contractor's performance and notify both the Contracting Officer and contractor of any deficiencies; coordinate availability of Government Furnished Property (GFP); and provide site entry of contractor personnel. A letter of designation issued to the COR(s), a copy of which is sent to the contractor, states the responsibilities and limitations of the COR(s), especially regarding changes in price estimates or changes in delivery dates or periods of performance. The COR(s) is/are not authorized to change any of the terms and conditions of the resulting order, especially any terms that affect price, delivery schedule, or period of performance.

### 1.6.9 KEY PERSONNEL

The contractor shall provide a Project Manager who shall be responsible for the performance of the work. The name of this person and an alternate who shall act for the contractor when the manager is absent shall be designated in writing to the Contracting Officer. The Project Manager or alternate shall have full authority to act for the contractor on all contract matters relating to daily operation of this contract.

The Project Manager or alternate shall be available between 8:00 AM to 4:30 PM, Monday thru Friday based on the time zone of the location/Installation except Federal holidays or when the Government facility is closed for administrative reasons.

Qualifications for all key personnel are listed in Table 1.

KEY PERSONNEL	CERTIFICATIONS	EXPERIENCE	SKILL	PROJECT SEQEMENT
Project Manager	Certified PMP or equivalent experience	7 Years Project Management	Proven leadership, management, and organizational skills	Implementation
On-Site Project Manager	· · · · · · · · · · · · · · · · · · ·		Proven leadership, management, and supervisory skills	Implementation
Quality Control/Quality Assurance Manager	BICSI Installer Certified	7 Years QC/QA Management	Proven telecommunications quality management skills	Implementation
Lead Systems Engineer (LSE)	BS Science/Engineering	10 Years Engineering Discipline	Licensed Professional Engineer (PE)	Implementation
Network/Telecommunications Engineer	Registered Communications Distribution Design (RCDD)	10 Years Network/ Telecommunications	Proven telecommunications design and installation skills	Implementation
Logistician	Certified Professional Logistician	5 Years Logistics Management	Proven leadership, management, and organizational skills	Sustainment

**Table 1 – Key Personnel\*** 

### 1.6.10 IDENTIFICATION OF CONTRACTOR EMPLOYEES

All contract personnel attending meetings, answering Government telephones, and working in any situations where their contractor status is not obvious to third parties are required to identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials. They must also ensure that all documents or reports produced by contractors are suitably marked as contractor products or that contractor participation is appropriately disclosed. Contractors shall obtain visitor badges in accordance with MCB Quantico security policy.

### 1.6.11 CONTRACTOR TRAVEL

The contractor may be required to travel to off-site training locations and to ship training aids to these locations in support of this PWS. Contractor may be authorized travel expenses consistent with the substantive provisions of the Federal Acquisition Regulation 31.205-46 and the limitation of funds specified in each task and delivery order. All travel requires prior Government approval/authorization by the COR(s).

### 1.6.12 ORGANIZATION CONFLICT OF INTEREST

To the extent that the work under this contract requires access to proprietary, business confidential, or financial data of other companies, and as long as these data remain proprietary or confidential, the contractor shall protect the data from unauthorized use and disclosure and agrees not to use it to compete with those other companies.

1. "Organizational Conflict of Interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. "Person" as used herein includes corporations, partnerships, joint ventures, and other business enterprises.

<sup>\*</sup> Fr the Quality Control/Quality Assurance Manager, the Contractor may swap 5 years of relevant QC/QA experience for the BICSI certification.

<sup>\*</sup> For the Logistician, the Contractor may swap 5 years of logistics experience for the Certified Professional Logistician certification

- 2. The contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in the contract, the contractor does not have any organizational conflict of interest(s) as defined in paragraph (1).
- 3. It is recognized that the effort to be performed by the contractor under this contract may create a potential organizational conflict of interest on the instant contract or on a future acquisition. In order to avoid potential conflict of interest, and at the same time to avoid prejudicing the best interest of the government, the right of the contractor to participate in future procurement of equipment and/or services that are the subject of any work under this contract shall be limited as described below in accordance with the requirements of FAR Subpart 9.5.

### 4. The contractor agrees:

- a) That it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the government any information provided to the contractor by the government during or as a result of performance of this contract. Such information includes, but is not limited to, information submitted to the government on confidential basis by other persons. Further, the prohibition against release of government provided information extends to cover such information whether or not in its original form, e.g., where the information has been included in contractor generated work or where it is discernible from materials incorporating or based upon such information. This prohibition shall not expire after a given period of time. See, DFARS 252.204-7000, Disclosure of Information, included in the contract.
- b) The contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure or any party outside the government any information generated or derived during or as a result of performance of this contract.
- c) The prohibitions contained in subparagraphs (4)(a) and (4)(b) shall apply with equal force to any affiliate of the contractor, any subcontractor, consultant, or employee of the contractor, any joint venture involving the contractor, any entity into or with which it may merge or affiliate, or any successor or assign of the contractor. The terms of paragraph (f) of the Special contractor Requirement relating to notification shall apply to any release of information in contravention of this paragraph (4).
- 5. The contractor further agrees that during the performance of this contract and for a period of three years after completion of performance of this contract, the contractor; any affiliate of the contractor; any subcontractor, consultant, or employee of the contractor; any joint venture involving the contractor; any entity into or with which it may subsequently merge or affiliate; or any other successor or assign of the contractor, shall not furnish to the Marine Corps, either as a prime contractor or as a subcontractor, or as a consultant to a prime contractor or as a subcontractor, any system, component or services which is the subject of the work to be performed under this contract. This exclusion does not apply to any re-competition for those systems, components, or services on the basis of work statements growing out of the effort performed under this contract, developed from a source other than the contractor, subcontractor affiliate, or assign of either. During the course of performance of this contract or before the three-year period following completion of this contract has lapsed, the contractor may, with the authorization of the cognizant contracting officer, participate in a subsequent procurement for the same system, component, or service. In other words, the contractor may be authorized to

- compete for procurement(s) for systems, components or services subsequent to an intervening procurement.
- 6. The contractor agrees that, if after award, it discovers an actual or potential organizational conflict of interest; it shall make immediate and full disclosure in writing to the contracting officer. The notification shall include a description of the actual or potential organizational conflict of interest, a description of the action, which the contractor has taken or proposes to take to avoid, mitigate, or neutralize the conflict, and any other relevant information that would assist the contracting officer in making a determination on this matter. Notwithstanding this notification, the government may terminate the contract for the convenience of the government if determined to be in the best interest of the government.
- 7. Notwithstanding paragraph (6) above, if the contractor was aware, or should have been aware, of an organizational conflict of interest prior to the award of this contract or becomes, or should become aware of an organizational conflict of interest after award of this contract and does not make an immediate and full disclosure in writing to the contracting officer, the government may terminate this contract for default.
- 8. If the contactor takes any action prohibited by this requirement or fails to take action required by this requirement, the government may terminate this contract by default.
- 9. The contracting officer's decision as to the existence or nonexistence of the actual or potential organization conflict of interest shall be final and is not subject to the clause of this contract entitled "DISPUTES" (FAR 52.233.1).
- 10. Nothing in this requirement is intended to prohibit or preclude the contractor from marketing or selling to the United States Government its product lines in existence on the effective date of this contract; nor, shall this requirement preclude the contractor from participating in any research and development. Additionally, sale of catalog or standard commercial items are exempt from this requirement.
- 11. The contractor shall promptly notify the contracting officer, in writing, if it has been tasked to evaluate or advise the government concerning its own products or activities or those of a competitor in order to ensure proper safeguards exist to guarantee objectivity and to protect the government's interest.
- 12. The contractor shall include this requirement in subcontracts of any tier which involve access to information or situations/conditions covered by the preceding paragraphs, substituting "subcontractor" for "contactor" where appropriate.
- 13. The rights and remedies described herein shall not be exclusive and are in addition to other rights and remedies provided by law or elsewhere included in this contract. 5.4. Proprietary Information Exchange Agreement (PIEA)/Non-Disclosure Agreements (NDA). The contractor shall arrange the signature on all PIEA/non-disclosure agreements necessary to interface with other contractors to accomplish the contract requirements in accordance with FAR 9.505-4 prior to beginning any efforts associated with this PWS. Copies of all non-disclosure agreements required for this contract shall be provided to the Contracting Officer and COR.

### 1.6.13 SYSTEM SECURITY PLAN

- 1. System Security Plan and Plans of Action and Milestones (SSP/POAM) Reviews
- a) Within thirty (30) days of contract award, the Contractor shall make its System Security Plan(s) (SSP(s)) for its covered contractor information system(s) available for review by the Government at the contractor s facility. The SSP(s) shall implement the security requirements in Defense Federal Acquisition Regulation Supplement (DFARS) clause 252.204-7012, which is included in this contract. The Contractor shall fully cooperate in the Government s review of the SSPs at the Contractor s facility.
- b) If the Government determines that the SSP(s) does not adequately implement the requirements of DFARS clause 252.204-7012 then the Government shall notify the Contractor of each identified deficiency. The Contractor shall correct any identified deficiencies within thirty (30) days of notification by the Government. The contracting officer may provide for a correction period longer than thirty (30) days and, in such a case, may require the Contractor to submit a plan of action and milestones (POAM) for the correction of the identified deficiencies. The Contractor shall immediately notify the contracting officer of any failure or anticipated failure to meet a milestone in such a POAM.
- c) Upon the conclusion of the correction period, the Government may conduct a follow-on review of the SSP(s) at the Contractor's facilities. The Government may continue to conduct follow-on reviews until the Government determines that the Contractor has corrected all identified deficiencies in the SSP(s).
- d) The Government may, in its sole discretion, conduct subsequent reviews at the Contractor's site to verify the information in the SSP(s). The Government will conduct such reviews at least every three (3) years (measured from the date of contract award) and may conduct such reviews at any time upon thirty (30) days' notice to the Contractor.
- 2. Compliance to NIST 800-171
- a) The Contractor shall fully implement the CUI Security Requirements (Requirements) and associated Relevant Security Controls (Controls) in NIST Special Publication 800-171 (Rev. 1) (NIST SP 800-171), or establish a SSP(s) and POA&Ms that varies from NIST 800-171 only in accordance with DFARS clause 252.204-7012(b)(2), for all covered contractor information systems affecting this contract.
- b) Notwithstanding the allowance for such variation, the contractor shall identify in any SSP and POA&M their plans to implement the following, at a minimum:
- (1) Implement Control 3.5.3 (Multi-factor authentication). This means that multi-factor authentication is required for all users, privileged and unprivileged accounts that log into a network. In other words, any system that is not standalone should be required to utilize acceptable multi-factor authentication. For legacy systems and systems that cannot support this requirement, such as CNC

equipment, etc., a combination of physical and logical protections acceptable to the Government may be substituted;

- (2) Implement Control 3.1.5 (least privilege) and associated Controls, and identify practices that the contractor implements to restrict the unnecessary sharing with, or flow of, covered defense information to its subcontractors, suppliers, or vendors based on need-to-know principles;
- (3) Implement Control 3.1.12 (monitoring and control remote access sessions) Require monitoring and controlling of remote access sessions and include mechanisms to audit the sessions and methods.
- (4) Audit user privileges on at least an annual basis;
- (5) Implement:
- i. Control 3.13.11 (FIPS 140-2 validated cryptology or implementation of NSA or NIST approved algorithms (i.e. FIPS 140-2 Annex A: AES or Triple DES) or compensating controls as documented in a SSP and POAM); and,
- ii. NIST Cryptographic Algorithm Validation Program (CAVP) (see https://csrc.nist.gov/projects/cryptographic-algorithm-validation-program);
- (6) Implement Control 3.13.16 (Protect the confidentiality of CUI at rest) or provide a POAM for implementation which shall be evaluated by the Navy for risk acceptance.
- (7) Implement Control 3.1.19 (encrypt CUI on mobile devices) or provide a plan of action for implementation which can be evaluated by the Government Program Manager for risk to the program.
- 3. Cyber Incident Response:
- a) The Contractor shall, within fifteen (15) days of discovering the cyber incident (inclusive of the 72-hour reporting period), deliver all data used in performance of the contract that the Contractor determines is impacted by the incident and begin assessment of potential warfighter/program impact.
- b) Incident data shall be delivered in accordance with the Department of Defense Cyber Crimes Center (DC3) Instructions for Submitting Media available at <a href="http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...">http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...</a> In delivery of the incident data, the Contractor shall, to the extent practical, remove contractor-owned information from Government covered defense information.
- c) If the Contractor subsequently identifies any such data not previously delivered to DC3, then the Contractor shall immediately notify the contracting officer in writing and shall deliver the incident data within ten (10) days of identification. In such a case, the Contractor may request a delivery date later than ten (10) days after identification. The contracting officer will approve or disapprove the request after coordination with DC3.

### 4. Naval Criminal Investigative Service (NCIS) Outreach

The Contractor shall engage with NCIS industry outreach efforts and consider recommendations for hardening of covered contractor information systems affecting DON programs and technologies.

### 5. NCIS/Industry Monitoring

- a) In the event of a cyber incident or at any time the Government has indication of a vulnerability or potential vulnerability, the Contractor shall cooperate with the Naval Criminal Investigative Service (NCIS), which may include cooperation related to: threat indicators; pre-determined incident information derived from the Contractor's infrastructure systems; and the continuous provision of all Contractor, subcontractor or vendor logs that show network activity, including any additional logs the contractor, subcontractor or vendor agrees to initiate as a result of the cyber incident or notice of actual or potential vulnerability.
- b) If the Government determines that the collection of all logs does not adequately protect its interests, the Contractor and NCIS will work together to implement additional measures, which may include allowing the installation of an appropriate network device that is owned and maintained by NCIS, on the Contractor's information systems or information technology assets. The specific details (e.g., type of device, type of data gathered, monitoring period) regarding the installation of an NCIS network device shall be the subject of a separate agreement negotiated between NCIS and the Contractor. In the alternative, the Contractor may install network sensor capabilities or a network monitoring service, either of which must be reviewed for acceptability by NCIS. Use of this alternative approach shall also be the subject of a separate agreement negotiated between NCIS and the Contractor.
- c) In all cases, the collection or provision of data and any activities associated with this statement of work shall be in accordance with federal, state, and non-US law.

#### 2 DEFINITIONS AND ACRONYMS

#### 2.1 **DEFINITIONS**

BACKBONE TRANSPORT. The communications infrastructure, outside plant cable and electronic equipment, that provides both the physical and logical connection between communications (core and distribution) nodes.

DEFECTIVE SERVICE. A service output that does not meet the standard of performance described within the Performance Specification.

DELIVERABLE. Anything that can be physically delivered but may include non-manufactured things such as meeting minutes or reports.

KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract. Key Personnel are listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

LONG LEAD ITEMS. Long lead Items are defined as those items that take sixty (60) or more calendar days to procure/receive due to complex design, complicated manufacturing process, and/or limited production capacity.

LOCAL TIME. Time at reckoned in a particular region or time zone.

PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.

#### 2.2 ACRONYMS

Acronym	Term	
A&A	Assessment and Authorization	
AC	Alternating Current	
ACD	Automatic Call Distribution	
ACAS	Assured Compliance Assessment Solutions	
AHJ	Authority Having Jurisdiction	
ANACI	Access National Agency Check and Inquiries	
AO	Authorizing Official	
APL	Approved Product List	
AS	Assured Services	
ASR	Asset Shipping Report	
ATC	Authorization to Connect	
ATO	Authorization to Operate	
ATS	Automatic Transfer Switch	
AWG	American Wire Gauge	
B/P/C/S	Base/Post/Camps/Stations	
BAN	Base Area Network	
BET	Building Entrance Terminal	
BoL	Bill of Lading	
BOM	Bill of Materials	

Acronym	Term	
BTI	Base Telephone Infrastructure	
CAC	Common Access Card	
CAT I	Category I	
CAT II	Category II	
CAT III	Category III	
CCB	Configuration Control Board	
CEC	Continuing Education Credits	
CEDC	Component Enterprise Data Center	
CFR	Code of Federal Regulations	
CI	Configuration Item	
CLIN	Contract Line Item Number	
CM	Configuration Management	
CMDB	Configuration Management Database	
CMP	Configuration Management Plan	
CN	Core Node	
CND	Computer Network Defense	
CONOPS	Concept of Operations	
CONUS	Continental United States (excludes Alaska and Hawaii)	
COPP	Certified Output Protection Protocol	
COR	Contracting Officer Representative	
CoS	Class of Service	
COTR	Contracting Officer's Technical Representative	
COTS	Commercial-Off-the-Shelf	
CPD	Capability Production Document	
CRM	Comments Resolution Matrix	
CS	Cyber Security	
CSM	Cyber Security Manager	
CSSA	Customer Service Support Application	
CST	Cyber Security Technical	
CUI	Controlled Unclassified Information	
CWDM	Coarse Wavelength Division Multiplexing	
DBID	Defense Biometric Identification	
DC	Direct Current	
DD1149	Requisition and Invoice Shipping Document (Form DD1149)	
DD250	Department of Defense Form 250 (Receiving Report)	
DD254	Department of Defense Contract Security Requirement List	
DEA	Drug Enforcement Administration	
DFARS	Defense Federal Acquisition Regulation Supplement	
DISA	Defense Information Systems Agency	
DISN	Defense Information Systems Network	
DLA-DS	Defense Logistics Agency - Disposition Services	
DN	Distribution Node	
DoD	Department of Defense	
DoDIN	DoD Information Network	

Acronym	Term	
DoN	Department of the Navy	
DSCP	Differentiated Service Code Points	
DSX	Digital Signal Cross-Connect	
DWDM	Dense Wavelength Division Multiplexing	
E911/NG911	Enhanced 911/Next Generation 911	
EDP	Engineering Design Package	
EFIST	Engineer, Furnish, Install, Secure, Test	
EMT	Electrical Metallic Tubing	
EOL	End of Life	
EOS	End of Service	
EPO	Emergency Power Off	
ES&D	Enterprise Staging and Deployment	
ESL	Enterprise Software License	
ESOH	Environmental, Safety and Occupational Health	
ETAS	Emergency Technical Assistance Services	
EUB	End-user Building	
EULA	End User License Agreement	
EEVE	Enterprise Engineering and Verification Environment	
FAR	Federal Acquisition Regulation	
FBI	Federal Bureau of Investigation	
FFP	Firm Fixed Price	
FISMA	Federal Information Security Management Act	
FOUO	For Official Use Only	
FSE	Field Service Engineer	
FSO	Facility Security Officers	
GAT	Government Acceptance Test	
GFI	Government Furnished Information	
GFP	Government Furnished Property	
HIPAA	Health Insurance Portability and Accountability Act	
HMX-1	Marine Headquarters Squadron One	
HSPD-12	Homeland Security Presidential Directive-12	
HVAC	Heating, Ventilating, and Air Conditioning	
HW	Hardware	
I3A	Installation Information Infrastructure Architecture	
I3MP	Installation Information Infrastructure Modernization Program	
IAW	In Accordance With	
IBC	International Building Code	
INFOCON	Information Operations Conditions	
iRAPT	Invoice Receipt Acceptance and Property Transfer	
ISN	Installation Service Node	
ISP	Inside Plant	
IT	Information Technology	
ITIL	Information Technology Infrastructure Library	
IUID	Item Unique Identification	

Acronym	Term	
IVR	Interactive Voice Recognition	
GFP	Government Furnished Property	
JIE	Joint Information Environment	
JITC	Joint Interoperability Test Command	
JPAS	Joint Personnel Adjudication System	
JTR	Joint Travel Regulation	
KSA	Key Systems Attributes	
LAN	Local Area Network	
LCL	Logistic Lifecycle	
LCSP	Life-Cycle Sustainment Plan	
LOC	Letter of Clarification	
LSC	Local Session Controller	
LSTDM	Low Speed Time Division Multiplexing	
MCCAST v2	Marine Corps Certification and Accreditation Support Tool	
MCEN	Marine Corps Enterprise Network	
MCCOG	Marine Corps Cyberspace Operation Group	
MCSC	Marine Corps Systems Command	
MDF	Main Distribution Frames	
MPT	Manpower and Training	
MOS	Mean Opinion Score	
MOS	Military Occupational Specialty	
MOSA	Modular Open Systems Approach	
MSDS	Material Safety Data Sheet	
MUDG	Military Unique Deployment Guide	
NACI	National Agency Check with Written Inquiries	
NACLC	National Agency Check with Law and Credit	
NCA	National Capitol Region	
NCES	Net-Centric Enterprise Services	
NCI	Network Communications Infrastructure	
NDA	Non-disclosure Agreement	
NET	New Equipment Training	
NIPRNet	Non-classified Internet Protocol Router Network	
NIR	Non-Developmental Item Integration Review	
NLT	No Later Than	
NMCARS	Navy Marine Corps Acquisition Regulation Supplement	
NMCI	Navy and Marine Corps Intranet	
NOC	Network Operations Center	
NSN	National Stock Number	
OCI	Organizational Conflict of Interest	
OCONUS	Outside Continental United States (includes Alaska and Hawaii)	
OEM	Original Equipment Manufacturer	
O&M	Operations and Maintenance	
ON	Optical Network	
OSP	Outside Plant	

Acronym	Term	
OSPDPR	Outside Plant Design and Performance Requirements	
OTS	Optical Transport System	
PAC	Post Award Conference	
PCA	Physical Configuration Audit	
PCR	Project Close-out Review	
PDU	Power Distribution Unit	
PERSEC Office	Personnel Security Office	
PESHE	Programmatic Environment, Safety and Occupational Health,	
	and Evaluation	
PIA	Privacy Impact Assessment	
PIEA	Proprietary Information Exchange Agreement	
PII	Personally Identifiable Information	
PM	Project Manager	
PMM-172	Program Manager Marine, Customer Support and Strategic Sourcing	
PMO	Provost Marshall's Office	
PM N&I	Program Manager Network and Infrastructure	
POA&M	Plan of Actions and Milestones	
POC	Point of Contact	
PoP	Period of Performance	
PP	Protection Profiles	
PPSM	Ports, Protocol, Services, and Management	
PRS	Performance Requirements Summary	
PSI	Personnel Security Investigation	
PSR	Project Status Review	
PSS	Pre-award Site Survey	
PSTN	Public Switched Telephone Network	
PUR	Purchaser User Rights	
PUR	Product User Rights	
QA	Quality Assurance	
OAP	Quality Assurance Program	
QASP	Quality Assurance Surveillance Plan	
QC	Quality Control	
QCP	Quality Control Program	
QoS	Quality of Service	
RMA	Return Material Authorization	
RMF	Risk Management Framework	
ROADM	Reconfigurable Optical Add/Drop Multiplexers	
RTM	Requirements Traceability Matrix	
RTS	Real Time Service	
RU	Rack Units	
S-PR	Secret Periodic Review	
SAAR	System Authorization Access Request	
SAR	Safety Assessment Report	
SAT	System Acceptance Test	

Acronym	Term	
SDN	Software Defined Network	
SEP	System Engineering Plan	
SI	System Integrator	
SIP	Session Initiation Protocol	
SIPRNet	Secure Internet Protocol Router Network	
SLA	Software License Agreement	
SLIN	Sub-Line Item Number	
SON	Statement of Need	
SONET	Synchronous Optical Network	
SPPN	Special Purpose Processing Node	
SBPR	SSBI Periodic Reinvestigation	
SSBI	Single Scope Background Investigation	
SPPR	SSBI Phased Periodic Reinvestigation	
SRG	Security Requirement Guides	
SSR	Site Specific Requirements	
STIG	Security Technical Information Guide	
SURA	Software User Rights Agreement	
SW	Software	
T&E	Test and Evaluation	
TAS	Technical Assistance Services	
TCCB	Team Configuration Control Board	
TDM	Time Division Multiplexing	
TDP	Technical Data Package	
TGB	Telecommunications Grounding Busbar	
TIA	Telecommunications Industry Association	
TIM	Technical Interchange Meeting	
TMGB	Telecommunications Main Grounding Busbar	
TMS	Telephony Management Systems	
TOS	Terms of Service	
TPN	Tactical Processing Node	
TRDP	Technical Review Data Package	
TPTCTS	Test Procedures, Test Cases, Test Scripts	
TRR	Test Readiness Review	
TSO	Technical Support Officer	
TTP	Tactics, Techniques, and Procedures	
UC	Unified Communications	
UCR	Unified Capabilities Requirements	
UFC	Unified Facilities Criteria	
UID	Unique Identification	
UII	Unique Item Identifier	
UPS	Uninterrupted Power Supply	
VLAN	Virtual Local Area Network	
VLRA		
VLKA	Valve Regulated Lead Acid	

Acronym	Term	
VRF	Virtual Routing and Forwarding	
VSS	Verification Site Survey	
WAN	Wide Area Network	
WAP	Wireless Access Point	
WAWF	Wide Area Work Flow	
WLAN	Wireless Local Area Network	
WSS	Wave Selectable Switch	
XMPP	Extensible Messaging and Presence Protocol	

## 3 GOVERNMENT FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

The Government will not be providing any Government furnished property for this contract.

#### 4 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES

#### 4.1 GENERAL

The contractor shall furnish all supplies, equipment, facilities, and services required to perform work under this contract that are not identified in Section 3 of this PWS.

Accountability for all hardware and software is the sole responsibility of the contractor until such time as the Government has performed the final acceptance. All Bills of Ladings (BoLs) and shipping documents shall be provided to the Program Office upon receipt of the shipments. The contractor shall provide the Government with an initial Bill of Materials (BOM) and Configuration Management Database (CMDB) at the Technical Interchange Meeting (TIM). The contractor shall provide a final Material and Equipment List or BOM to the Government prior to the start of Cut-Over to ensure proper and accurate property transfer. The Material and Equipment List/BOM will include, at a minimum, the following fields: name, part number, item description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

The contractor shall coordinate all shipments with the Lead Logistician aboard N&I. The contractor shall mark the equipment in accordance with MIL-STD 130 and provide the Government with a completed Asset Shipping Report (ASR) and Form DD1149 for all new equipment delivered under this contract. The DD1149 Form shall contain, at a minimum, an item description, serial number, part number, unit of issue, quantity received, unit price, and total cost. The contractor shall coordinate a turnover schedule with the gaining command and perform a serialized "item by item" inventory with the Supply Officer, or designated representative, and obtain a signature for the delivery of the equipment. As part of the equipment delivery, the contractor shall provide the final Material and Equipment List.

#### 4.2 MATERIALS EQUIPMENT

The contractor shall provide and deploy all materials and equipment required to transport, install, configure, provision, and test the systems and subsystems delivered under the task and delivery orders in accordance with established industry practices and Original Equipment Manufacturer's (OEMs) methodologies, procedures, and sustainment support activities.

#### 5 SPECIFIC TASKS

#### 5.1 ENGINEER, FURNISH, INSTALL, SECURE, TEST

The contractor shall be responsible to EFIST and make operational a Regional UC System and a Base Area Network (BAN). Each system shall be completely functional with the required programming, interfaces, hardware, software, software licenses, ancillary equipment, parts, databases, and material for all identified users, services, and requirements. The modernized systems and associated subsystems shall retain all functionality of the existing systems and provide additional functionality to meet the requirements specified in the site-specific requirements specification. To ensure compliance with all requirements, the contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all identified requirements to the Performance Requirements Summary (PRS). The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, and demonstration) to validate the contractor's proposed system design for Government acceptance. All proposed systems configurations will be baselined in accordance with PM N&I, Configuration Management Plan (CMP). The contractor shall repurpose/reutilize existing equipment to the maximum extent practical based on their solution. In addition, the contractor shall EFIST and make operational any ancillary equipment that is required to support this effort such as grounding, firmware, interfaces, patch panels, applications, and similar equipment necessary to deliver a complete and useable solution.

The contractor shall use, to the greatest extent possible, enterprise software licenses for Commercial Off-the-Shelf (COTS) software products available from the Department of the Navy (DoN) Enterprise Software License (ESL) agreements for any software required to support their proposed solution. The DoN ESL Team is aligned under Program Manager, Customer Support and Strategic Sourcing (PMM-172) as a joint Navy and Marine Corps strategic sourcing effort to consolidate, centralize, and streamline the acquisition and management of DoN ESL Agreements. Enterprise software Licenses agreements are available for the following applications: Microsoft, Oracle, Avaya, Symantec/Veritas, ActivIdentity, CISCO SMARTnet, VWware, Solarwinds, and Red Hat. The contractor will coordinate the use of available enterprise software license agreements with the NCI Program Office after contract award.

The contractor shall be responsible for replacing and correcting any hardware, software, applications, data, configurations, material, or services omitted and/or installed in contractor error without any extra expense or delay to the Government. The contractor shall not be responsible for replacing or correcting existing Government property, software, or facility problems, outside the scope of this PWS.

#### 5.1.1 REGIONAL UNIFIED COMMUNICATIONS

The Regional UC solution shall provide business voice capability to each end-user in those locations where the solution will be deployed. MCB Quantico shall include all Non-classified Internet Protocol Router Network (NIPRNet) users on MCB Quantico, users at Indian Head, MD, Tech Parkway, Quantico Corporate Center, and Barrett Heights in Stafford, VA,. The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911)

services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

#### 5.1.2 BASE AREA NETWORK

The BAN consists of a Distribution Layer and an Access Layer. It shall provide for the transportation of voice, video, and data on all locations where the solution will be deployed. There are 8 Area Distribution Nodes (ADNs) located on MCB Quantico; Bldgs. (1999, 24204, 3255, 3300, 2076, 26100, 27282, and Russell Knox). These nodes shall be connected with a Dense Wavelength Division Multiplexing (DWDM) system with a Reconfigurable Optical Add/Drop Multiplexer (ROADM) located at each node. All circuits traversing the installation shall use the DWDM. Circuits shall be transitioned off the SONET network. The BAN shall satisfy the requirements of Section 8. The BAN has no external connectivity but gets core connectivity through the Core Nodes (CNs) and the Installation Gateway.

DWDM technology will provide backbone transport connectivity at MCB Quantico. SONET will be removed.

The Contractor shall provide a second design with an "All PON" solution in accordance with section 8 and par 8.3.2.2.

#### 5.1.3 FACILITY/NODE PREPARATIONS

#### 5.1.3.1 POWER SYSTEMS

The Contractor shall not be required to include power as a feature of their solution, but will identify any necessary power requirements during the VSS in a report to the Government.

#### 5.1.3.2 AUXILIARY INFRASTRUCTURE

Auxiliary Infrastructure is comprised of the equipment and components that supplement the primary systems and subsystems provided in the proposed solution. This equipment consists primarily of equipment racks/cabinets, ladder rack, cable tray, re-enforcing structures, that house the electronic components installed as a part of the overall modernization effort at each DN. All requirements for auxiliary infrastructure will be verified during the VSS.

#### 5.2 CYBERSECURITY

The contractor, in coordination with the NCI Project Manager and NCI Cybersecurity Representative, shall perform all recommended Cybersecurity configuration settings, programming, and configurations of components being provided to ensure compliance with all cyber requirements. At a minimum, the contractor shall provide the following items for Government review: System Configuration Hardware/Software Baseline, Network/Security configurations, Ports, Protocol, Services, and Management (PPSM), system and equipment warranties, software license agreements, software upgrades, and all documentation required to support the Assessment and Authorization (A&A) and Configuration Control Board (CCB) processes. Refer to the Table 2 - Contract Deliverables Matrix for specific Cybersecurity requirements. All products must be current on the DoDIN Approved Product List (APL). The system shall be designed and implemented with hardware/software that is

compliant with and fielded in accordance with the Joint Interoperability Test Command (JITC) approved configuration and Military Unique Deployment Guide (MUDG).

#### 5.2.1 JOINT INTEROPERABILITY TEST COMMAND CERTIFICATION

All proposed UC system hardware and software shall have received JITC certification in accordance with the latest version of the DoDI 8100.4, Unified Capabilities before the system can connect to the DoD Information Network (DoDIN). All proposed system hardware and software shall have a valid JITC certification by the Test Readiness Review (TRR). Connection to the DoDIN will not be authorized until certification is updated and the system is fielded in accordance with the certification letter and applicable JITC deployment guides.

Non-certified or expiring JITC certified systems may be proposed provided a road map and Plan of Actions and Milestones (POA&M) is included in the offeror's proposal indicating that JITC certification will be achieved prior to TRR. Additionally, the offeror shall provide a mitigation plan in the event the proposed system does not achieve the required JITC certifications by TRR.

# 5.2.2 RISK MANAGEMENT FRAMEWORK FOR DoD INFORMATION TECHNOLOGY

Before the proposed hardware and software solution can be connected to the DoDIN via the MCEN, all system hardware, software, and ancillary equipment shall be Cybersecurity compliant IAW the latest version of the technical controls mandated by *DoDI 8510.01*, *Risk Management Framework* (*RMF*) for *DoD Information Technology* (*IT*). In addition, the contractor shall assist the Government by providing, developing, and submitting any necessary system documentation, settings, specifications, and hardening (application of Security Technical Information Guides (STIG), vulnerability scans, testing and installing patches, and vulnerability mitigation) required to update the Government Assessment and Authorization (A&A) package and entry into the Marine Corps Certification and Accreditation Support Tool (MCCAST v2). The delivered system will be incorporated to the BAN/LAN Site Accreditation following installation.

# 5.2.3 SECURITY AND TECHNICAL IMPLEMENTATION GUIDES, SECURITY REQUIREMENT GUIDES, AND ASSURED COMPLIANCE ASSESSMENT SOLUTIONS SCANS

The Contactor shall apply all applicable Defense Information Systems Agency (DISA) STIGs and Security Requirement Guides (SRGs) to all applicable hardware and software. This shall require the contractor to perform system vulnerability scans, system setting adjustments, software updates/patches, or system hardware/software reconfigurations and hardening. The contractor shall provide applicable STIG checklists; vulnerability scans with the DoD-approved Assured Compliance Assessment Solutions (ACAS) scanning tool, and a POA&M with mitigations and estimated completion dates for all open Cybersecurity findings. ACAS Vulnerability findings are defined as Critical/High = Category (CAT) I, Medium = CAT II, and Low = CAT III. STIG findings are defined as follows: CAT I, CAT II, and CAT III. All CAT I vulnerabilities shall be remediated or mitigated. All CAT II/III vulnerabilities must be remediated if a patch is available and STIG/SRG settings are configured without affecting system functionality. If a patch/STIG/SRG setting is not available or affects operational functionality, an acceptable mitigation (i.e., current processes or measures that reduce vulnerability exposure) must be provided in the POA&M with recommended completion dates.

All ACAS scans will be accomplished using the DISA Field Security Operations (FSO) scan policy Government Furnished Information (GFI) and latest ACAS plugin definitions available on the DoD Patch repository at the time scans are conducted. Contractor shall ensure all ACAS scans are completed with proper credentials and IAW the latest policies and guidelines as defined by DISA and/or the U.S. Marine Corps. All automated and manual STIG/SRG settings shall be applied.

#### 5.3 CONTRACT PROJECT PHASES

The accepted Request for Proposal (RFP) design constitutes the Conceptual Design baseline and is the starting point for every contract project.

This section identifies the Project Phases and Project Milestones/Reviews associated with this contract. These milestones include, but are not limited to, all the system technical reviews and audits ensuring the engineered design satisfies the PRS outlined in Part 8 of the PWS, Site Specific Requirements, and NCI Systems Engineering Plan (SEP). This timeline represents "Tailored Conformance" to meet a Systems Engineering Approach as directed by DoD guidance. The contractor's Contract Schedule shall include, at a minimum, all of the events identified in this section, beginning with Site Task Award, to mitigate potential adverse impacts to cost, performance, and schedule.

The NCI Contract Notional Timeline depicted in Figure 1 identifies the sequence of events for the contract.

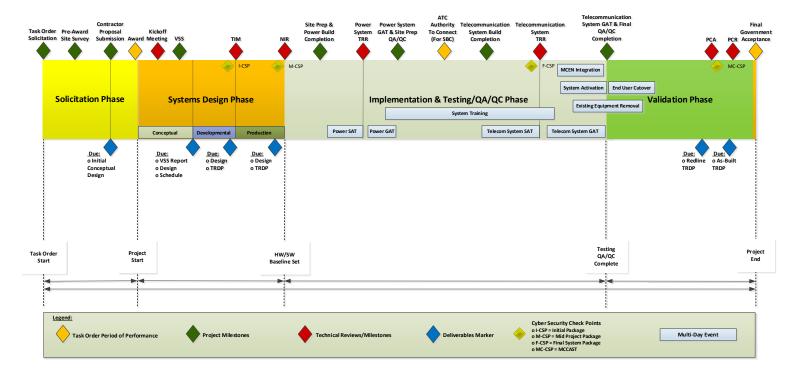


Figure 1 – Notional Timeline

#### 5.3.1 PROJECT MILESTONES AND EVENTS

The Notional Timeline depicted in Figure 1 coincides with the expected Contract events beginning with the Contract Solicitation. Mapping these design stages to NCI programmatic, Implementation Phases are as follows.

#### 5.3.1.1 CONTRACTOR PROPOSAL SUBMISSION

The contractor shall submit a proposals within 30 calendar days from receiving the Request for Proposal from the Government. The proposal shall contain the contractor's proposed conceptual design and architecture, pricing, materials and equipment list, project plan, and project timeline including all the events identified in the notional timeline (durations, dates, and the proposed period of performance).

#### 5.3.1.2 SYSTEM DESIGN PHASE

The System Design Phase is initiated with the Award, signifying the start of the period of performance. Subsequent to the Award, the Government shall hold a Post Award Kick-off meeting. This Phase shall also include a contractor Verification Site Survey (VSS) to validate assumptions made on the information provided as part of the PWS. Throughout the duration of this Phase, the contractor shall deliver a detail system design and Technical Data Package (TDP) to be reviewed at designated technical reviews.

The contractor shall also deliver Cybersecurity documentation prior to the associated technical review events IAW the timelines identified in Table 2 - Contract Deliverables Matrix.

**Table 2 – Contract Deliverables Matrix** 

T	Table 2 – Contract Denverables Matrix			
Item Number	Item Title	Due	Deliverable Format	
1	Project Schedule	Proposed: fifteen (15) Calendar Days after the start of the VSS Monthly: NLT the last day of every month (Ad hoc Project Schedule Reports may be Requested)	MS Project 2016 and PDF	
2	Conceptual (Proposed) Design	Revised: NLT 15 (15) calendar days after the VSS	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF	
3	Verification Site Survey Report	NLT fifteen (15) calendar days after the VSS.	VSS Report: Contractor Format (PDF or Microsoft Office Word 2016 or later)	
4	Technical Data Package	Developmental: NLT fifteen (15) calendar days prior to the TIM. Production: NLT fifteen (15) calendar days prior to the NIR. Red Line: NLT the completion of Cutover. As-Built: NLT fifteen (15) calendar days prior to the PCR.	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF M&E List: Microsoft Office Excel 2016 or later HW/SW Baseline: Microsoft Office Excel 2016 or later	
5	RTM	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)	
6	SAT Plan	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen e(15) calendar days prior to the NIR. Final: NLT fifteen(15) calendar days prior to the TRR.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)	
7	ACAS Scans Schedule	Initial: NLT fifteen (15) calendar days prior to the TIM. Final: NLT fifteen (15) calendar days prior to the NIR.	Contractor Format (PDF and Microsoft Office Project 2016 or later)	
8	Cyber Security POA&M	Initial: NLT fifteen (15) calendar days prior to the TIM. Revised: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the Telecommunications Systems TRR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)	
9	Technical Controls	Initial: NLT fifteen (15) calendar days prior to the TIM.	Contractor Format (PDF or Microsoft Office Excel 2016 or later)	

Item Number	Item Title	Due	Deliverable Format
		Revised: NLT fifteen (15) calendar days prior to the NIR.	
10	Safety Assessment Report (SAR)	NLT fifteen (15) calendar days prior to the NIR.	Contractor provided format (PDF and Microsoft Office Excel 2016 or later)
11	Site Prep TPTCTS	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
12	Telecommunications TPTCTS	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
13	Cutover Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
14	IUID Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
15	STIG/SRG Check List	Current: NLT fifteen (15) calendar days prior to the Power Systems TRR.	Native format
16	ACAS Vulnerability Scans	Current: NLT fifteen (15) calendar days prior to the Power Systems TRR.	.nessus File format
18	Completed Telecommunications System TPTCTS	NLT ten (10) calendar days after the Telecommunications System GAT.	Government provided format (Microsoft Office Word 2016 and PDF)
19	Warranty Procedure Guide	NLT fifteen (15) calendar days prior to the PCA.	Contractor Format (PDF)
20	Installations, Operations and Maintenance, and SW User Manuals	NLT fifteen (15) calendar days prior to the PCA.	Contractor Format (PDF)
21	MCCAST Import Template	Current: NLT fourteen (14) prior to the PCR	Native format
22	Asset Shipping Report	An ASR shall be provided with each equipment shipment to ES&D.	Government-provided Format (Microsoft Office Excel 2016 or later)

The System Design Phase consists of three design levels: Conceptual, Developmental, and Production. (Reference Section 5.7.1.1 – Product Drawings and Associated Lists)

<u>Conceptual Design</u> provides the framework for the allocated baseline by defining the system and subsystem architectures and is delivered or established at proposal. The design shall include hardware and software lists, depiction of critical support system interfaces and any underlying services architectures as well as identification of all system CNs, DNs, and EUBs to ensure that the proposed system has an expectation of being operational, feasible, and satisfies the site-specific requirements.

**Developmental Design** describes the integration approach and is used to evaluate and validate that the design meets the required performance. This information is used to produce materiel for test and for the analytical evaluation of the inherent ability of the design approach to attain the required performance. This design level shall include but not limited to any updates associated with the Conceptual Design, all impacted building floor plans (both top and elevation views), wire, fiber, power, and grounding routing details, all rack/cabinet and ladder tray drawings. These design components shall be delivered prior to the Technical Interchange Meeting (TIM) for technical review and adjudication.

**Production Design** is a detailed and complete design that captures any updates to the Conceptual and Developmental Designs and shall include but not limited to all components, recommended spares, and applicable repair parts. The production design shall also include all applicable detailed wiring and cabling schematics. These design components shall be delivered prior to the Non-Developmental Item Integration Review (NIR) for technical review and adjudication.

#### 5.3.1.2.1 AWARD KICK-OFF MEETING

The Kick-off meeting shall be a review and discussion of the documents provided in the contractor proposal submission and provide a forum for both the Government and contractor to reach consensus on all project implementation expectations. Government will provide applicable deliverable templates to contractor. The contractor shall deliver their proposed project schedule at the kickoff meeting.

#### **5.3.1.2.2 VERIFICATION SITE SURVEY**

The contractor shall proceed to the place of performance to conduct a Verification Site Survey (VSS) within twenty (20) calendar days of Contract Award. The purpose of the VSS is to provide the contractor(s) an opportunity to validate assumptions made on the site information provided in the PWS. Coordination of the VSS visitation shall be facilitated by the NCI Project Manager, the contractor, and the site TSO. The VSS Report, Revised Conceptual (Proposed) Design, and the Baseline Project Schedule shall be provided to the Government IAW the criteria and timeline identified in Table 2 - Contract Deliverables Matrix. The VSS Report shall provide an accurate description of the existing conditions and identify any potential discrepancies or changes to the proposed design. Upon Government review and acceptance, authority to proceed to Developmental Design shall be granted and the Baseline Project Schedule established.

#### 5.3.1.2.3 TECHINCAL INTERCHANGE MEETING

The TIM is an informal meeting that fosters the exchange of ideas through open discussion and participation. The purpose of the TIM is to provide a forum for problem solving and information sharing between Government and contractor personnel that encourages cooperation and fosters

collaboration in resolving technical and engineering deficiencies and/or discrepancies. TIMs are to be conducted when necessary as determined by the COR/Project Manager. The contractor shall conduct at least one on-site TIM at the place of performance to adjudicate the results of the Government's review of the Developmental Design.

#### 5.3.1.2.4 NON-DEVELOPMENTAL ITEM INTEGRATION REVIEW

An NIR is a multi-disciplined product and process assessment to ensure the system under review can proceed into the Implementation & Testing and Quality Assurance (QA)/Quality Control (QC) Phase. This review assesses the TDP artifacts and reviews the Production Design. The contractor shall participate in a Government lead NIR IAW the NCI SEP. The NIR is a formal milestone review requiring Government acceptance. Successful completion of the NIR will establish the product baseline. The contractor shall demonstrate that the Detailed Design satisfies the specifications identified in the Contract Solicitation and the Site Specific Requirements (SSR). The contractor shall present a test and system cutover for the purpose of performing design verification and validation. The contractor shall also prepare and provide a Safety Assessment Report (SAR). The SAR shall identify the contractor's mitigation of any safety and environmental hazards identified in the NCI Programmatic Environment, Safety and Occupational Health, and Evaluation (PESHE).

#### 5.3.1.3 IMPLEMENTATION, TESTING, AND QA/QC PHASE

The Implementation, Testing, and QA/QC Phase shall begin with the acceptance of all deliverables associated with the NIR milestone. The contractor shall execute the system build to the accepted Production Design, beginning with Site Preparation and Power System installations, followed by installation and integration of the telecommunications systems components. The contractor shall provide continuous oversite of all subordinate contractors in accordance with all aspects of program management.

#### 5.3.1.3.1 SITE PREPARATION BUILD COMPLETION

This milestone incorporates the procurement and installation of all required system infrastructure, including, but not limited to, system racks, cabinets, and ladder racking. Upon completion of this milestone, the contractor shall ensure the installation complies with all local and regulatory requirements.

#### 5.3.1.3.2 SYSTEMS ACCEPTANCE TEST AND GOVERNMENT ACCEPTANCE TEST

Test and Evaluation (T&E) is an integral part of the systems engineering process. System/Subsystem Testing demonstrates the delivered solution fulfills the requirements and specifications of the PWS. Testing shall be performed in two phases, the System Acceptance Test (SAT) and the Government Acceptance Test (GAT). Separate SAT/GAT events will be performed for Telecommunications systems. SAT shall be contractor-performed testing that occurs prior to TRR. The Government will observe the SAT.

It is expected that the contractor shall install and test system/subsystem components without connection to the DoDIN/MCEN. As a result, the contractor may not be able to complete all required system and sub-system testing during SAT. It is expected that systems and subsystems requiring MCEN connection are hardened. The GAT leverages the final SAT documents provided by the SI to determine testing that demonstrates system-wide functionality of hardened devices. The government

will attend any contractor(s) scheduled SAT testing events to ensure test data integrity. GAT will be the final test event and all connections and interfaces shall be established during this time.

#### 5.3.1.3.3 TEST READINESS REVIEW

The TRR is a significant multi-disciplined technical review designed to ensure the system and/or subsystem under review is ready for Government testing and functions as the transition from SAT to GAT. The TRR assesses test objectives, test methods and procedures, test scope, and safety to confirm required test resources have been properly identified, made available, and coordinated to support planned tests. The TRR verifies the traceability of planned tests through the use of the RTM. It determines the completeness of test procedures and their compliance with test plan descriptions. The TRR also assesses the system under review for development maturity, cost/schedule effectiveness, and risk to determine readiness to proceed to formal testing.

#### 5.3.1.4 VALIDATION PHASE

The Implementation Phase shall transition into the Validation Phase upon successful completion of the Telecommunications System GAT and the final QA/QC inspection.

#### **5.3.1.4.1 CUTOVER**

Cutover is the process of migrating existing circuits and end-user services (voice and data) from legacy systems to the newly installed contractor-provided solution. The contractor shall develop a detailed Cutover Plan to support cutover. The Cutover Plan shall provide the approach, schedule, required Government resources, system outages, and fall back plan.

The contractor shall be responsible for performing a flash cutover, unless deemed impractical due to technical, logistical, or base operational constraints, of all services identified in this document. This shall include capturing and validating existing system's database and subscriber information, transferring information, configuring, and deploying the new system to the end-user device. This information includes, but is not limited to, dial plans, subscriber features and capabilities, call lists, settings and configurations. The cutover shall also include hardware and patching of existing subscribers and services inside the closets and at the end user locations. Cutover methods utilized shall minimize service-affecting outages and be described in detail in the Cutover Plan.

The contractor shall conduct service-affecting cutovers of systems outside normal duty hours with minimal downtime as designated by the TSO. During system cutover, the contractor shall establish, staff, manage and support all on-site help desk functions and responsibilities to include customer calls, creating trouble tickets and logs, tracking reports for active and closed tickets, answering subscriber questions and correcting deficiencies, and coordinating with the TSO to prioritize trouble tickets. An electronic and paper copy of the Trouble Ticket Log shall be maintained on-site for Government inspection during cutover. The Trouble Ticket Log shall be turned over to the Government after resolution and closure of all Trouble Tickets directly attributable to the contractor's solution.

#### 5.3.1.4.2 SYSTEM OUTAGES

Any work requiring system downtime shall occur during off-duty/weekend hours, be kept to a minimum, and not occur without specific acceptance from NCI Project Manager and the site TSO. The contractor shall submit a system recovery/fallback plan for review and acceptance for all scheduled outage. The system recovery/fallback plan shall be provided as part of the Cutover Plan.

#### 5.3.1.4.3 REMOVAL OF EXISTING EQUIPMENT

Upon Government approval, the contractor shall decommission, disconnect, de-install, dismantle, and remove all displaced core switching equipment. The contractor shall remove any system anchors, brackets, and racks protruding from the floors and/or walls. The contractor shall ensure that no active service is disrupted during the switch or equipment removal and shall be liable for any costs incurred by the Government to restore disrupted service. All replaced core switching equipment shall be removed and properly disposed of by the contractor.

Existing equipment identify by the Government for reuse and redistribution will be turned over to the Program Office upon removal. Disposal of all equipment shall be coordinated through the TSO and the Installation's Defense Logistics Agency - Disposition Services (DLA-DS) to ensure compliance with Government disposal procedures. The contractor shall provide the Government with a document identifying all replaced core switching equipment. At a minimum, the following fields shall be included: name, part number, description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

#### 5.3.1.4.4 PHYSICAL CONFIGURATION AUDIT

The Physical Configuration Audit (PCA) shall be conducted to determine conformance of the as built configuration to the product baseline with the TDP. The PCA shall be a joint audit conducted by the contractor and Government. The results of the audit shall be documented by the contractor and adjudicated by the Government before Project Closeout Review (PCR) for inclusion in the As-built TDP.

#### 5.3.1.4.5 PROJECT CLOSEOUT REVIEW

The Project Closeout Review (PCR) shall be conducted to verify all project requirements have been satisfied, all deliverables have been submitted to the Government, and all Government administrative actions have been completed.

#### 5.4 PROJECT ADMINISTRATION/MANAGEMENT

#### 5.4.1 PROJECT PLAN

The contractor shall establish, deliver, and ensure that a Project Plan remains in effect throughout the project period of performance. At a minimum, the Project Plan shall focus on and align with the Project Schedule. The Project Plan should address areas such as Safety, Configuration Management, and Risk Management. The Project Plan shall clearly demonstrate an understanding of the project timeline and associated milestones for the project and how the contractor plans to satisfy the requirements of the PWS. The Project Plan shall address a management approach and highlight actions that will be taken to mitigate risk to cost, schedule, and performance, highlight any possible positive or negative impacts, and provide details on the process to deal with unforeseen site conditions, schedule slips, or other problems of program risks. The Plan shall describe the contractor's approach to Resource Management and shall identify the project team.

#### 5.4.2 PROJECT SCHEDULE

The contractor shall deliver and maintain an accurate and up-to-date project schedule that accurately reflects the current status of the project progress and resources. To ensure proper management and accuracy of the project schedule, the contractor shall coordinate and consult with relevant stakeholders throughout the course of the project. The project schedule shall include all significant events, detailing each sequence of work that should be completed, identify major milestones and tasks from start to completion of the project, as well as include all critical path events. At a minimum, the project schedule shall identify the following columns: Start, Finish, Baseline Start, Baseline Finish, Duration, and Percent Complete for each task, to include the associated task paths (successors, predecessors, etc.). The contractor shall deliver the proposed Project Schedule within twenty (20) calendar days after the start of the VSS. The Government will then have fifteen (15) calendar days to review and coordinate with the contractor any necessary corrections and updates in order to establish a baseline schedule. The accepted project schedule will then become the baseline and will not change throughout the duration of the project, except in the event of contract modifications that impact the project schedule (scope increase/decrease, etc.).

The contractor shall reference and adhere to the guidance in the NCI Schedule Management Plan.

#### 5.4.3 MEETINGS

The contractor shall plan, host, attend, coordinate, support, and conduct meetings, formal reviews, conferences, and audits required during the period of performance of this contract. Meetings shall be conducted at either Government or contractor facilities, or via conference call/video teleconference. The contractor shall prepare agendas and meeting presentation materials for each meeting. The contractor shall also provide minutes and reports following each meeting. The minutes must include a summary of all action items, dates assigned, responsible parties, and estimated completion dates of testing.

#### 5.4.3.1 PROJECT STATUS REVIEW MEETINGS

The contractor shall plan, host, coordinate, and conduct a Project Status Review (PSR) each week throughout the period of performance for the purpose of reviewing and updating the Government on the current status of the project. To support the administration and management of the Weekly PSR, the contractor will provide a Meeting Agenda, Action Items List, and Project Schedule two (2)

calendar days prior to the execution of the Weekly PSR. In addition, the contractor shall provide meeting minutes NLT two (2) calendar days after the PSR.

The Meeting Agenda will address, at a minimum, the following areas of concern:

- 1. Introductions/Documentation of Attendance
- 2. Summary of Week's Activities
  - a. Issues encountered and resolutions taken to address
  - b. Issues encountered and still unresolved
  - c. Completed activities for the week
- 3. Activities Planned for the following week
- 4. Overall Project Status Review
- 5. Action Item/Register Review
- 6. Review Deliverables Status
- 7. Review any changes to the TDP and Design Drawings (Redline Drawings)
- 8. Materials Status
  - a. Discuss preformed Quality Reviews and the results
- 9. Coordination Resolution of any identified deficiencies
- 10. Discussion of Upcoming Significant Events; possible issues and mitigations (as needed)
- 11. Project Schedule Review relative to the Baseline Project Schedule for thirty (30) calendar days before and thirty (30) calendar days after the PSR
- 12. Coordinate any staffing updates to the project team(s)
- 13. Additional Questions/Open Forum
- 14. Meeting Summary/Assigned Action Item Review.

An Action Item List shall be maintained and delivered as part of the contractor's weekly progress. Closed action items shall only be presented one time. The Action Item List shall contain the following tabs at a minimum:

- 1. Meeting Attendees
- 2. General
- 3. Site Prep
- 4. Data
- 5. Voice

- 6. Schedule Review
- 7. Deliverable Review
- 8. Closed
- 9. Risk Log
- 10. Personnel
- 11. Shipping
- 12. Damage Incident Log
- 13. Stakeholder Contact Info
- 14. Risks Matrix

#### 5.4.4 OUALITY CONTROL

The contractor shall develop and maintain an effective quality control program to ensure services are performed in accordance with this PWS. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor's quality control program is the means by which he assures himself that his work complies with the requirement of the contract. The contractor shall provide a written Quality Control Plan (QCP) with the IDIQ proposal. Any changes arising from this effort will be incorporated into any subsequent award. Post-award changes to the QCP shall be submitted to the Contracting Officer and COR within five (5) calendar days of the affected change. The Contracting Officer will provide written acceptance of any proposed changes after delivery of the revised QCP. In addition, the contractor shall incorporate the following minimum elements into the QCP.

- Definition of contractor quality control management lines of responsibility
- Quality Control Management System Process
- Internal Design Review/Change Control Process
- Internal Document Control Process
- Process for Testing
- Process for the execution of Corrective Actions
- Process for maintaining Quality Assurance records throughout the project lifecycle
- Process for performing random internal Quality Control audits.

#### 5.4.4.1 QUALITY ASSURANCE

The Government will evaluate the contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan (QASP). This plan is primarily focused on what the Government must do to ensure that the contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied, the frequency of surveillance, and the minimum acceptable quality levels. The contractor shall provide an assessment detailing their conformance to both the technical and programmatic management of the contract.

#### 5.5 LOGISTICS SUPPORT

The contractor shall provide dedicated logistic support to plan and coordinate efforts that integrate logistics and life cycle support considerations into the design of the system. The effort shall be conducted as an integral part of the development, integration, and test processes to define the range and depth of the required support, to develop supportability data products, and to address all applicable elements of logistics.

#### 5.5.1 LOGISTICS MANAGEMENT

A joint Government/contractor coordination shall be established to monitor the status of the program implementation. The coordination will be conducted to address logistic matters, schedules, warranty, and PWS performance. The Government will oversee and monitor the contractor's implementation of applicable logistics elements during the project period of performance and throughout the warranty period. The Government has the right to request status of what's in place in and in storage at any time during the contract.

#### 5.5.2 ITEM UNIQUE IDENTIFICATION

The contractor will develop an Item Unique Identification (IUID) Plan and implement specific IUID markings, in accordance with Defense Federal Acquisition Regulation Supplement (DFARS) 252.211-7003, DFARS 252.245-7001, SECNAVINST 4440.34, MIL-STD-130N to include recommendations for marking of spare assemblies and subassemblies, components, and parts below \$5,000 and highly pilferable to include recommendations for marking of spare assemblies, subassemblies, components, and parts below \$5,000. The Government shall make the final determination for IUID marking of items below \$5,000. All spare parts, secondary repairable items, and consumables that exceed \$5,000 and Government selected items under \$5,000 will be marked with the item IUID prior to delivery to the Government. The IUID marking shall be incorporated into existing data plates when possible. Bar coding and the two dimensional IUID data matrix shall be machine-readable with common optical scanning devices and be accompanied by the corresponding human readable markings when practical. All 2D data labels shall be permanently affixed and shall ensure its readability during normal operational use. The plan shall also describe the marking process and identify marking locations for each item identified. The contractor will identify the location of approved IUID markings within all drawings.

The contractor will load all IUID data into the DoD IUID Registry NLT fifteen (15) calendar days after completion of the PCA. Additionally, the contractor shall load all serial items to include IUID data into invoice Receipt Acceptance and Property Transfer (iRAPT) formally known as Wide Area Work Flow (WAWF). The contractor will provide an IUID Marking Activity and Verification Report for each system and spares delivered to the Government. The IUID Marking Activity and Verification Report will include a listing of all IUID assigned numbers by Contract Line Item Number (CLIN), Sub-Line Item Number (SLIN), or Exhibit Item and contain the model number, part number, serial number (if applicable), and parent/child relationship.

#### 5.5.3 PARENT END ITEM DATA PLATE INFORMATION

The contractor will use Table IV (UII Construct 1 or 2) and Figure 1 of MIL-STD-130N as a guide when developing the NCI data plate. The Parent End Item 2D matrix shall contain human and

machine-readable markings and shall be no less than 1 cm wide and no less than 40 percent contrast. The minimum data plate information for NCI Parent End Items are as follows:

- 1. Nomenclature
- 2. NSN (if available)
- 3. Design Activity: (MFR ID Cage Code)
- 4. Serial Number
- 5. Government Ownership Designation: U.S. Property
- 6. Contract Number
- 7. Two-dimensional IUID data matrix
- 8. Unique Item Identifier (UII).

#### 5.5.3.1 SUB ASSEMBLY DATA PLATE INFORMATION

The contractor will use Table IV (UII Construct 1 or 2) and Figure 1 of MIL-STD-130N as a guide when developing the NCI sub-assembly data plate. The Sub-Assembly 2D matrix shall contain human and machine-readable markings and shall be no less than 1 cm wide and no less than 40 percent contrast. All applications must be permanently affixed, as well as human and machine-readable when the necessary space is available. For sub-assembly items that do not currently utilize a data plate, the contractor will refer to MIL-STD-130N to develop best business practices for a display of the data elements below. The IUID data plates shall display the following minimum information:

- 1. NSN (if available)
- 2. Part Number
- 3. Serial Number
- 4. Manufacturer Cage Code
- 5. 2-dimensional IUID data matrix
- 6. Unique Item Identifier.

#### 5.5.4 WARRANTY

The contractor shall provide a full, unlimited one-year warranty for all contractor provided hardware/software, materials, and workmanship. The warranty shall begin immediately upon Final Government Acceptance of all items delivered under this contract.

The contractor shall establish and maintain a warranty performance system that identifies and documents all items to be warranted under this contract. Each item warranted shall be indexed and identified by serial number, model number, part number, Unique Identification (UID), warranty period, Original Equipment Manufacturer (OEM), and date of acceptance by the Government. All pertinent data required for the Government to pursue warranty provisions, remedy, and relief for each item shall be provided to the Government in the form of a Warranty Procedures Guide and shall be maintained by the contractor for the duration of the warranty period. All warranty claims and transactions shall be documented and made available for Government review upon request or during scheduled meetings and/or reviews throughout the life of all warranted items used in all production phases of the NCI Program.

All costs for shipping and handling for warranted items from and to the field activity are the responsibility of the contractor. The warranty period will cover all hardware, software/firmware, materials, installation services, applicable Software (SW)/Cyber Security (CS) updates, and workmanship provided for the overall system design solution. Hardware/Equipment warranty will include repair and return services for all hardware/equipment replacement that will be configured with software/firmware and ready to install upon receipt.

#### 5.5.5 ENVIRONMENTAL SAFETY AND HEALTH

#### 5.5.5.1 SYSTEMS SAFETY

The contractor shall identify all hazardous material associated to the newly installed equipment and deliver the applicable Material Safety Data Sheet (MSDS) to the Government. The contractor shall identify and evaluate safety and health hazards and define risk levels that manage the probability and severity of all hazards associated with development, use, and disposal of the system in accordance with MIL-STD-882D. Residual risks will be evaluated by the Government in accordance with Tables A-I through A-IV of MIL-STD-882D and reviewed for acceptance or further risk mitigation action IAW the PESHE.

## 5.6 GREY MARKET ITEMS, LICENSE TRANSFERABILITY, AND END USER TERMS AND CONDITIONS

In order to minimize the risk of the Government purchasing counterfeit products or unauthorized secondary market equipment, which would not be supported by the OEM, and to ensure that the Government purchases only equipment that is genuine (i.e., not counterfeit), authorized (e.g., not gray market, includes appropriate licenses, etc.), and supported (e.g., warranty and support services) by the OEM, when it submitted its proposal, the contractor, for:

Hardware: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of the proposal and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor warrants that all products provided under this contract are new. By submitting any proposal under this contract, contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of contract award. Contractor agrees that it will provide a list of serial numbers for any hardware provided or installed. Failure to provide this information may result in delays to acceptance and payment. The Government will use this information to confirm with the Manufacturer or OEM that the hardware is (1) genuine (not counterfeit) and (2) authorized hardware that has been sourced and provided in accordance with the Manufacturer's applicable policies (e.g., not gray market or diverted). If the Manufacturer indicates that the hardware meets these two requirements, the Government will notify the contractor. If the Manufacturer indicates the hardware does not meet these two requirements, the Government may reject the hardware, revoke acceptance, or pursue any other available and appropriate remedies under the contract.

<u>Software</u>: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of award and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in

accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor shall warrant that all products are new, or, in the case of downloadable software, that all software is sourced from the OEM or Authorized Reseller. By submitting its proposal contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of this contract. Contractor shall certify that it has notified the software Licensor that the United States Marine Corps (Buyer) will be the Licensee. Contractor shall have provided, with any proposal, a copy of the End User license Agreement (EULA), Terms of Service (TOS), or other similar legal instrument or agreement and warrants that all Manufacturer software is or will be licensed originally to Buyer as the original Licensee authorized to use the Manufacturer Software. Note the provisions of FAR 52.212-4(u) apply.

<u>Maintenance</u>: If, during performance of any maintenance required under this contract, the contractor provides replacement hardware or software, then the above Hardware, Software, or both requirements, including all required certification and compliance requirements, apply. The contractor shall ensure that the Government shall have full rights and entitlements to any software maintenance procured under this contract for software for which it has been identified as the original licensee or for which a license is subsequently transferred to the Government.

<u>Hardware</u>, <u>Software</u>, <u>and/or Maintenance</u>: If the contractor is not a Manufacturer Authorized Partner as of the date of the submission of its proposal then, as applicable, contractor shall submit with its proposal a document, from the Manufacturer, that identifies the Vendor by name and states the following:

- (1) That the products proposed (including hardware, software, and/or support services) are genuine (i.e., not counterfeit and not unauthorized secondary market/gray market products) (note: all items, including part numbers where applicable, shall be listed in the document);
- (2) That contractor has the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, in accordance with the applicable Manufacturer certification/specialization requirements;
- (3) That contractor will be able to receive from Manufacturer, and that Manufacturer will not deny, the support services required to support the product(s);
- (4) That contractor has the authority to transfer to the Government all appropriate software licenses associated with the product(s) at no additional cost to the Government; and
- (5) That Manufacturer will not deny required warranty support for the product(s).

The Government's remedies for the contractor's failure to provide conforming products or services consistent with the above requirements are detailed in FAR 52.212-4, with emphasis on paragraphs (a), (m), and (u).

This contract contains the clauses, terms, and conditions acceptable to the Government. Any hardware, software, or maintenance provided under this contract that contains conflicting terms or conditions, including but not limited to an EULA, Software License Agreement (SLA), Purchaser User Rights (PUR), Product User Rights (PUR), Software User Rights Agreement (SURA), Support Agreement, Maintenance Agreement, or any other vendor or OEM-specific agreements regardless of how titled or described, may be considered unacceptable. The contractor is on notice that if they

choose to submit a document containing terms and conditions, they are required to demonstrate that those terms and conditions do not conflict with, or differ from, this contract's terms and conditions, as well as any statute or regulation (e.g., FAR and DFARS). The contractor must provide the Government with an opportunity to review, modify, and approve any relevant EULA, SLA, SURA, PUR, or any other similar OEM-specific agreement, related to items procured under this contract for which the Government will be the licensee or will otherwise take title to. Compliance with this section is a component of technical acceptability for any proposal and for final project acceptance. Vendor-specific or OEM-specific terms and conditions that conflict with statutory or regulatory requirements, or are otherwise disadvantageous to the Government as noted above, may be determined unacceptable.

#### 5.7 DELIVERABLES

#### 5.7.1 TECHNICAL DATA PACKAGE

The contractor shall develop a TDP that contains Engineering Design Plan (EDP), design specifications, and drawings describing and depicting the solution and configuration of all systems and subsystems delivered in support of MCB Quantico's Contract. The review and acceptance process for all design specifications and drawings include a Conceptual Design data package, Developmental Design data package, Production Design data package, Redlines Drawings and As-Built Drawing package. The format for the TDP will be provided to the contractor by the Government at the Contract Kickoff meeting. The TDP shall consist of the Engineering Design Plan, Engineering Design Drawings, Systems Configuration Hardware/Software Baseline (CMDB File), and Materials and Equipment List to include Long Lead Items List. All increments of the TDP shall be delivered in accordance with the timelines identified in Figure 1 and the criteria outlined in Part 8, Technical Exhibit 2, Deliverables Schedule and IAW MIL-STD 31000B, ASME Y14.100, ASME Y14.24, ASME Y14.35M, and ASME Y14.34M.

The contractor shall document all design modifications and/or revisions to the accepted Production Design Data TDP via an ECP IAW the CMP. The ECP shall include updated the Red-line Engineering Design Package that accurately depicts the proposed engineering change. Revisions to the Redline drawings shall be provided every thirty (30) calendar days and previous drawing revisions implemented to produce an updated version. The Redline TDP will be used to perform the Physical Configuration Audit (PCA). Any changes to the redlined drawings and/or CMDB file will be recorded during the Physical Configuration Audit (PCA) and documented in the As-built TDP. The contractor shall provide the As-built TDP at the completion of the project at the Project Closeout Review (PCR) and incorporate all design changes and modifications performed during the implementation.

The contractor shall deliver a Draft CMDB File along with all other required artifacts of the TDP IAW Figure 1 - Contract Notional Timeline as part of the Technical Review Data Package for the Technical Interchange Meeting (TIM), that contains all relevant information about the hardware and software/firmware components provided in the accepted engineering design and the relationship between those components. The contractor shall deliver the Final CMDB file along with all other required artifacts of the TDP as part of the TRDP for the NIR. The CMDB provides an organized view of configuration data and a means of examining that data from multiple perspectives. The CMDB File shall identify all Configuration Items (CIs) delivered under this contract and the associated information and the interface between system components.

As part of the Materials and Equipment List, the contractor shall provide the OEM recommended minimum essential spare parts for DWDM equipment and systems provided under this PWS in order to alleviate system downtime in the event of a critical DWDM hardware failure. The minimum essential DWDM spares shall be identified separately in the Materials and Equipment List. The contractor shall restock any spare DWDM parts utilized during the modernization effort and warranty period.

#### 5.7.1.1 PRODUCT DRAWINGS AND ASSOCIATED LISTS

The contractor shall develop and deliver a TDP with the associated lists and artifacts describing and detailing the installation and configuration of all systems and subsystems delivered in this contract. This process may require the revision and update of existing drawings, and/or development of new drawings to meet the requirements of TDP drawings and associated lists. Only FINAL versions of the Conceptual, Developmental, Production, Redline, and As-Built data packages will be considered for acceptance by the government and represent fulfillment of the deliverable requirements. Existing, revised, new product drawings, and associated lists shall be used as the engineering data for procuring, controlling, using materials, parts, and assemblies whether produced in-house or supplied by the contractor. The drawings shall be used for the manufacture, assembly, provisioning, inspection, testing, and Configuration Management (CM) of the materials, parts, modules, subassemblies, assemblies, and product baseline of the hardware and software delivered in this contract. The TDP and associated lists shall not carry any proprietary markings. The contractor shall provide the necessary design, engineering, manufacturing, and quality assurance requirements necessary to enable the procurement or manufacture of an interchangeable item that duplicate the physical and performance characteristics of the original product. This must be accomplished without any additional design engineering effort or recourse to the original design activity.

- 1. The contractor shall comply with MIL-STD-3100B, "Technical Data Packages".
- 2. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 3. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 4. The contractor shall comply with the ASME Y14 Standards and lessons learned to improve the use of the Title Block, Revision Block, Sheet Numbering, and add Parts Lists and a Master Parts List Drawing Type.
- 5. The contractor shall comply with Installation Design Plan (IDP) drawing codes. (shown in Table 3).

	Table 5 Engineering Design Drawing List				
	IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE	
1	DT	DT	Drawing Tree	D, P, RL, AB	
	000	000	Functional Interface Diagram (Architecture Drawings)	D, P, RL, AB	
	010	000	Site Master Index	D	
	020	200	Installation Master Drawing	D, P, RL, AB	
	022	100	Master Parts List	D, P, RL, AB	

Table 3 – Engineering Design Drawing List

IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE
023		Technical Data Summary	D, P, RL, AB
040	400	Floor Plans and Elevations	D, P, RL, AB
050	400	Antenna Layouts and Elevations	D, P, RL, AB
060	500	Simplified Block Diagrams	D, P, RL, AB
070	500	Cable Block Diagrams	D, P, RL, AB
090		Cross Connect Records	P, RL, AB
100		Distribution Frame Layout	D, P, RL, AB
110	600	Circuit Diagrams	D, P, RL, AB
120	600	Labeling Details	P, RL, AB
130	600	Patch Panel Layouts	P, RL, AB
140		Power Distribution	D, P, RL, AB
160	300	Cable Routing Layouts	D, P, RL, AB
171	700	Mechanical Assembly and Mounting Details	D, P, RL, AB
180	800	Miscellaneous Installation Details	D, P, RL, AB
190		Miscellaneous System Configuration Details	D, P, RL, AB
LEGEND			
C-Conceptual, D-Developmental, P-Production, RL- Red Line, AB-As Built			

#### 5.7.2 SYSTEMS ACCEPTANCE TEST PLAN

The contactor shall prepare a Systems Acceptance Test (SAT) Plan that encompasses all system and sub-system test activities planned for each system. The following areas shall be emphasized in the SAT Plan: Test Event, Purpose of the Test, Date of Test (Start and End), Location of the Test, Need for Government Test Support, Schedule of Individual Test Events, and Test Procedures.

#### 5.7.3 TEST PROCEDURES, TEST CASES, TEST SCRIPTS

The Test Procedures, Test Cases, Test Scripts (TPTCTS) aligns with the SAT and GAT Plans; identify how each system is integrated, tested, and meets the specified system requirement. The TPTCTS shall include the following: Test Event; Test Diagram; Purpose of the Test; Test Entrance Criteria; Date of Test (Start and End), Location of the Test; Need for Government Test Support; Met, Not Met, or Met With Exception Criteria; and signature block for the Test Operator and Government Witness. The Contactor shall provide TPTCTSs, as individual appendices to the SAT Plan for each system and sub-system delivered under the PWS. The Test Procedures shall include all test cases and test scripts to demonstrate all system and sub-systems meet the specific requirements of the PWS.

#### 5.7.4 REQUIRMENTS TRACEABILITY MATRIX

To ensure compliance with all requirements, the Contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all requirements defined in the PRS and site-specific requirements. The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, demonstration) to validate the contractors proposed system design for Government acceptance.

#### 5.7.5 CUTOVER PLAN

The contractor shall develop a detailed Cutover Plan. The Cutover Plan shall provide the overall plan including the schedule, required Government resources, system outages, and fall back plan. In addition, the plan shall contain the system specific detailed procedures.

The contractor shall develop a detailed Cutover Plan for each system and subsystem. The Cutover Plan shall be system specific and shall include, at a minimum, a sequential list of events, detailed procedures, post-Cutover testing requirements/procedures, scheduled service outages/windows, service priority based cut-sheets, and system recovery/fall back plan. The Cutover Plan including any modifications must be accepted by the Government prior to commencement of cutover. Cutover shall not begin without a Government acceptance of the proposed cutover plan.

#### 6 TRAINING

#### 6.1 NEW EQUIPMENT TRAINING

For all non-Cisco OEMs, New Equipment Training (NET) shall be provided by the OEM or OEM certified trainers utilizing the Government approved course of instruction. NET shall consist of courses for administrators, operators, and maintainers (when deemed necessary). The contractor shall detail their training plan in their proposal. Where eLearning or web-based courses are involved a remote registry (user name and password) must be provided to the receiving units for access to the OEM courses. The courses shall not be more than eight hours in length each day and will be conducted Monday through Friday during normal business hours. Following completion of NET, Government approved comments received from attendees (Instructor Rating Forms, End of Course Critiques) shall be incorporated into the course to yield an improved product. The training shall be of sufficient depth and shall include "hands-on" time with the system to ensure that personnel are qualified to teach others (train the trainer concept) and to safely perform tasks in the intended operational environment. Training materials shall be provided IAW the requirements in the Section 6.1 - Training and Table 4 - Training Deliverables Matrix.

Item Number	Item Title	Due	Deliverable Format
1	Training Plan	Initial: NLT fifteen (15) calendar days prior to the NIR. Final: NLT fifteen (15) calendar days prior to the start of training.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
2	Training Materials	NLT fifteen (15) calendar days prior to the start of training.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
3	Training Material Updates	As required.	Contractor Format

**Table 4 – Training Deliverables Matrix** 

#### 6.2 TRAINING PERFORMANCE AND EVALUATION

The NCI Logistician and Manpower and Training (MPT) Lead will observe and evaluate the first instance of each training session. The contractor shall update the training materials (if applicable) in preparation for the next training event according to the comments received from attendees and MPT Lead's evaluations, recommendations, and comments. After each training event, all evaluation materials (tests, instructor rating form, and end of course critique) will be delivered to the MPT Lead for ongoing training analysis. An attendance roster shall be administered for each class substantiating each day of attendance and contain each student's basic information such as first and last name, grade, and Military Occupational Specialty (MOS) or Job Series. This roster shall also include class title(s), date and location, the name of the instructor, and the instructor's employer.

#### 6.3 TRAINING MATERIALS SUSTAINMENT

The contractor shall provide any revisions to the training course materials to each student in hard and soft copy. This includes all training material and technical literature required to teach the course (train the trainer concept) which includes but is not limited to instructor lesson plans, student guides, instructional visual aids, and any tests or practical applications with answer guides.

#### 6.4 TRAINING PLAN

The contractor shall prepare and provide a Training Plan to include strategy, methods, and resources to deliver training. This includes training concepts that incorporate course description, learning objectives, conditions, and standards. The Training Plan shall identify delivery methods, media type, anticipated training time, test, and evaluation. The Training Plan shall identify location, frequency, throughput, mitigated safety risks, classroom facilities, and training schedules.

#### 6.5 TRAINING MATERIALS

All training material shall be prepared per MIL-PRF-29612 and the Systems Approach to Training Manual, NAVMC 1553.1. Materials that fall under parameters of Commercial Off-the-Shelf (COTS) or non-developmental items do not necessarily have to be drafted under the specific templates but have to contain the elements within SAT guidelines.

The MPT Lead shall have fifteen (15) calendar days to review the any training materials submitted by the Contractor in the Training Plan, to ensure compliance with MIL-PRF-29612 and SAT Manual (NAVMC 1553.1) guidance and to provide comments and recommendations to the Logistics Lifecycle (LCL) lead.

#### 7 MANDATORY COMPLIANCE DOCUMENTS AND STANDARDS

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

- 1. Marine Corps Systems Command, Statement of Need (SON) for the Marine Corps Base Telecommunications Infrastructure (BTI), MCB Quantico: Marine Corps Systems Command, 2010.
- 2. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need, MCB Quantico: Marine Corps Systems Command, 2012.
- 3. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need (SON), MCB Quantico: Marine Corps Systems Command, 2013.
- 4. Marine Corps Systems Command/PMM-110, BTI Program Protection Plan, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 5. Marine Corps Systems Command/PMM-110, BTI Test Evaluation Strategy, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 6. USMC UC Implementation Plan v 1.0, Oct 9 2013 Unified Capabilities Implementation Plan.
- 7. MCSC/P IS&I, PMM-110/037-15, Acquisition Decision Memorandum for the Base Telecommunications Infrastructure Program, Quantico: Marine Corps Systems Command, 2015.
- 8. Department of the Navy (DoN), Next Generation Enterprise Network Capabilities Production Document, v. 1.5.6, 2012.
- 9. Marine Corps Wide Area Network (WAN) Transport Implementation Plan. Version 1.01 dtd 9 September 2017.
- 10. Department of the Navy, Unified Capabilities Implementation Plan, Washington, DC Department of the Navy, 2015.
- 11. Navy UC Implementation Plan Nov 22, 2013 Unified Capabilities Implementation Plan

- 12. DoN Software Process Improvement Initiative (SPII) Guidebook Department of the Navy Policy for Acquisition of Naval Software Intensive Systems, September 16, 2008.
- 13. Department of Defense, Defense Acquisition Guidebook (DAG).
- 14. Defense Information Systems Agency (DISA) Net-Centric Enterprise Services (NCES).
- 15. Department of Defense/DISA, "JITC UC Document Depot / EMS) Letter of Clarification Template Requirements," 4 May 2016.
- 16. US DoD System Safety Program, 2009.
- 17. DoD Information Enterprise Architecture Information Enterprise Architecture, v1.1, May 2009.
- 18. DoD, Manual For The Operation Of The Joint Capabilities Integration And Development System (JCIDS), 2012.
- 19. DoD Internet Protocol Version 6 (IPv6) Standard Profiles For IPV6 Capable Products Version 6.0 July 2011.
- 20. DoD Federal Acquisition Regulation Supplement (DFARS) 252.211-7003 Item Identification and Valuation.
- 21. DoD/CIO UCF January 2013 Unified Capabilities Framework.
- 22. DoD Procurement Toolbox, 2016.
- 23. Department of Defense Architecture Framework (DoDAF) v2.0.
- 24. Department of Defense/Defense Information Systems Agency Unified Capabilities Framework, Washington: Department of Defense/Defense Information Systems Agency, 2013.
- 25. DoD, Department of Defense Unified Capabilities (UC) Extensible Messaging and Presence Protocol (XMPP) Errata-1.
- 26. DoD, Department of Defense Assured Services (AS) Session Initiation Protocol (SIP).
- 27. DoD Guidance on Protecting Personally Identifiable Information (PII).
- 28. Federal Information Security Management Act (FISMA) of 2002 Standards and guidance for minimum-security requirements for Information Systems.
- 29. Modular Open Systems Approach (MOSA), Version 2.0.
- 30. Security Configuration Guides.
- 31. Strategic Command Directive 527-1 DoD Information Operations Conditions (INFOCON) System Procedures.
- 32. VoIP STIG Version 3, Release 15, VoIP Security Technical Implementation Guide.
- 33. DISA Policy and Guidance.
- 34. DISA, DoD Telecommunications and Defense Switched Network Security Technical Implementation Guide.
- 35. Network Infrastructure STIG Version 8, Release 8.
- 36. The Certificate Issuing and Management Components family of Protection Profiles (PPs).
- 37. Information Technology Infrastructure Library (ITIL) v3 Foundation Procedures, tasks and checklists used by an organization for establishing a minimum level of competency.
- 38. USAISEC OSPDPR Outside Plant Design and Performance Requirements (OSPDPR).

- 39. USAISEC I3A-2010 Technical Criteria for the Installation Information Infrastructure Architecture (I3A).
- 40. International Building Code (IBC 2015).

#### 7.1 FEDERAL PUBLICATIONS

Publication	Short Title
NIST SP 800-58	Voice Over IP (VoIP) Security
CNSSI 5000	Guidelines for VoIP Computer Telephony
OSHA 29 CFR 1910	Occupational Safety and Health Standards
OSHA 29 CFR 1910.269	Electric Power Generation, Transmission, and Distribution
OSHA, 29 CFR 1926.50	Medical services and first aid
OSHA 29 CFR 1926.403	Safety and Health Regulations for Construction
OSHA 29 CFR 1298	Occupational Safety and Health Standards, Washington: Occupational Safety and Health Administration, 2007

### 7.2 MILITARY UNIQUE STANDARDS

Publication	Short Title
MIL-STD 130N w/CH 1	Identification Marking of U.S. Military Property
MIL-STD-461G	Requirements for the Control of Electromagnetic Interference
MIL-STD-464C	Electromagnetic Environmental Effects Requirements for Systems
MIL-STD-810G w/CH 1	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-882D	Standard Practice for System Safety
MIL-STD-129R	Military Marking for Shipment and Storage
MIL-STD-188 124B	Grounding Bonding and Shielding
DI-MGMT-81650	Integrated Master Schedule (IMS)
MIL-HDBK-419A	Grounding and Bonding
MIL-HDBK-1013/1A	Design Guidelines for Physical Security of Facilities

# 7.3 Dod Opnav and marcorsyscom standards and references

Publication	Short Title	
ASTM D3951 - 15	Standard Practice for Commercial Packaging	
CJCSI 6510.01F	Information Assurance (IA) and Support to Computer Network Defense (CND)	
CJCSI 6211.02D	Defense Information Systems Network (DISN) Responsibilities	
CJCSI 6212.01E	Interoperability and Supportability of Information Technology and National Security Systems	
CJCSI 6215.01C	Policy for Department of Defense (DoD)Voice Networks with Real Time Services (RTS)	
CJCSI 6130.01F	Master Positioning, Navigation, and Timing Plan	
DoD 5000.2	Operation of the Defense Acquisition System	
DOD 8420.01	Commercial Wireless Local-Area Network (WLAN) Devices, Systems, And Technologies, November 3, 2017	
DoDI 8100.04	Unified Capabilities	
DoDI 8500.01	Cybersecurity	
DoDI 8510.01	Risk Management Framework for Information Technology	
DoDI 5000.64	Accountability and Management of DoD Equipment and other Accountable Property	
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields	
DoDI 3020.26P	Department of Defense Headquarters Continuity Plan (U)	
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields	
DoDI 5400.16	DoD Privacy Impact Assessment (PIA) Guidance	
DoDI 4140.67	DoD Counterfeit Prevention Policy	
DoDI 4161.02	Accountability and Management of Government Contract Property	
DODI 8010.01	Department Of Defense Information Network (DODIN) Transport	
DoDI 8320.04	Item Unique Identification Standards for Tangible Personal Property	
DoDD 8500.01E	Information Assurance, Mission Assurance Category	
DoDD 8500.2	Information Assurance Implementation	
DoDD 5000.01	The Defense Acquisition System	
UCR 2013	Unified Capabilities Requirements 2013 (UCR 2013) w/CH 2	
UFC 1-300-08	Criteria for Transfer and Acceptance of DoD Real Property w/CH 2	
UFC 3-301-01	Structural Engineering w/CH 3	
UFC 3-310-04	Seismic Design of Buildings	
UFC 3-501-01	Electrical Engineering	

Publication	Short Title	
UFC 3-520-05	Stationary Battery Areas w/CH 1	
UFC 3-520-01	Interior Electrical Systems	
UFC 3-575-01	Lightning and Static Electricity Protection Systems	
UFC 3-580-01	Telecommunications Interior Infrastructure Planning and Design	
UFC 3-580-10	Navy and Marine Corps Intranet (NMCI) Standard Construction Practices	
UFC 3-600-01	Fire Protection Engineering for Facilities Change 1	
UFC 4-021-02	Electronic Security Systems	
UFC 2000 Article 64	Stationary Lead-Acid Battery Systems	
UID Guide Version 2.5	Assuring Valuation, Accountability and Control of Government Property	
USAISEC – I3A, I3MP	Fort Detrick Engineering Directorate, Technical Guide for I3A and I3MP Grounding and Bonding	
USAISEC – I3MP	Fort Detrick Engineering Directorate, Technical Guide for Installation Information Infrastructure Modernization Program (I3MP)	
USAISEC – I3A	Technical Criteria for the Installation Information Infrastructure Architecture (I3A)	
USAISEC - SIPRNet	Secret Internet Protocol Router Network (SIPRNet) Technical Implementation Criteria	
USAISEC, TR No. AMSEL-IE-IS 08014	Enterprise Systems Engineering Directorate, I3MP Guide for Facilities Requirements of Core Communications Nodes	
USAISEC, TR No. AMSEL-IE-TI 09-001-7A	United States Army Information Systems Engineering Command (USAISEC) Outside Plant Design and Performance Requirements (OSPDPR)	
MARADMIN 639/08	USMC CS Vulnerability Management (CSVM) Program	
MCBUL 5239	Marine Corps Certification And Accreditation Program	
MCO 5239.1	Marine Corps Information Assurance Program (MCIAP)	
MCBUL 5234.15B	Marine Corps Enterprise Network Microsoft Computer Operating Systems Directive For Windows 10. Server 2012 and Exchange 2013	
NAVMC 5100.1	Marine Corps Operational Safety and Health Program	
SECNAVINST 5000.2	Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System	

# 7.4 INDUSTRY STANDARDS AND REFERNCES

Publication	Short Title	
ANSI/EIA 310-D	Cabinets, Racks, Panels, and Associated Equipment	
ANSI/TIA 606-C	Administration Standard for Commercial Telecommunications Infrastructure	
ANSI/TIA 568.0-D	Generic Telecommunications Cabling for Customer Premises	
ANSI/TIA 606-C	Administration Standard for Telecommunications Infrastructure	
ANSI/TIA 569-D	Telecommunications Pathways and Spaces	
ANSI/TIA 942-B	Data Center Cabling Standard	
ANSI/TIA-568.3-D	Optical Fiber Cabling Components	
ANSI/TIA- 455-133-A	Measurement of Fiber or Cable Length Using an OTDR	
ANSI/TIA/EIA-455-8-2000	Measurement Methods and Test Procedures – Attenuation OTDR	
ANSI J-STD -607-C w/CH 1	Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications	
ANSI Z535.4	Product Safety Signs and Labels	
ANSI/BICSI 002	Data Center Design and Implementation Best Practices	
ANSI/HFES 100	Human Factors Engineering of Computer Workstations	
ANSI/ISEA Z358.1	American National Standard for Emergency Eyewash and Shower Equipment	
ANSI/IEEE 142	Recommended Practices for Grounding of Industrial and Commercial Power Systems	
ANSI/IEEE C2	National Electrical Safety Code (NESC)	
IEEE 802.3	Standard for Ethernet	
IEEE 802.3at	IEEE Standard for Information technology - Local and metropolitan area networks - Specific requirements - Part 3: CSMA/CD Access Method and Physical Layer Specifications Amendment 3: Data Terminal Equipment (DTE) Power via the Media Dependent Interface (MDI) Enhancements	
IEEE 802.3af	IEEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Data Terminal Equipment (DTE) Power Via Media Dependent Interface (MDI)	
IEEE 802.1Q	Virtual Local Area Networks (LANs)	
IEEE 802.1X	Port-based Network Access Control (PNAC)	
IEEE 802.3ab	1000BASE-T Gigabit Ethernet	

Publication Short Title		
IEEE 802.3z	Gigabit Ethernet Over Optical Fiber and Shielded Twisted	
	Pair (STP)	
IEEE 802.3ae	10 Gigabit Ethernet (10 GbE)	
IEEE 802.1w	Rapid Reconfiguration of Spanning Tree	
IEEE 802.1s	Multiple Spanning Trees	
IEEE 802.3ba	40/100 Gigabit Ethernet	
IEEE RFC7348	Virtual eXtensible Local Area Network (VXLAN)	
IEEE 802.11	IEEE Standard for Information Technology - Telecommunications and information exchange between systems Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications	
IEEE 1100	IEEE Recommended Practice for Powering and Grounding Electronic Equipment. (IEEE Emerald Book)	
IEEE 1106	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications	
IEEE 1187	IEEE Recommended Practice for Installation Design and Installation of Valve-Regulated Lead-Acid Storage Batteries for Stationary Applications	
IEEE 1188	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications	
IEEE 1189	IEEE Guide for Selection of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications	
IEEE 1220	IEEE Application and Management of the Systems Engineering Process	
IEEE 1471	Recommended Practice for Architecture Description of Software Intensive Systems	
IEEE 15288.2	Standard for Technical Reviews and Audits on Defense Programs	
MIL-STD 31000 Rev. C	Technical Data Packages	
ASME Y14.100	Engineering Drawing Practices	
ASME Y14.24	Types and Applications of Engineering Drawings	
ASME Y14.35M	Revision of Engineering Drawings and Associated Documents	
ASME Y14.34M	Associated Lists	
IETF RFC 2819	Remote Network Monitoring Management Information Base	
IETF RFC 3261	SIP: Session Initiation Protocol	

Publication	Short Title	
IETF RFC 3410	Introduction and Applicability Statements for Internet-Standard Management Framework	
IETF RFC 3418	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)	
IETF RFC 4346	The Transport Layer Security (TLS) Protocol, Version 1.1	
IETF RFC 5709	OSPFv2 HMAC-SHA Cryptographic Authentication	
IETF RFC 5798	Virtual Router Redundancy Protocol (VRRP) Version 3 for IPv4 and IPv6	
IETF RFC 5905 v4	Network Time Protocol Version 4: Protocol and Algorithms Specification	
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)	
NFPA 1	Fire Code	
NFPA 70	National Electrical Code	
NFPA 70E	Standard for Electrical Safety in the Workplace	
NFPA 72	National Fire Alarm and Signaling Code	
NFPA 75	Standard for the Protection of Information Technology Equipment	
NFPA 76	Stationary Lead-Acid Batteries	
NFPA 101	Life Safety Code	
NFPA 110	Standard for Emergency and Standby Power Systems	
NFPA 780	Standard for the Installation of Lightning Protection Systems	
NFPA 2001	Standard on Clean Agent Fire Extinguishing Systems	
GR-513-CORE	Power Requirements in Telecommunications Plants	
GR-1275-CORE	Central Office/Network Environment Equipment Installation/Removal Generic Requirements	
GR 1502-CORE	Central Office/Network Environment Detail Engineering Generic Requirements	
GR-3160-CORE-001	Generic Requirements for Telecommunications Data Center Equipment and Space, Jul 2013	
UL 96A	Standard for Installation Requirements for Lightning Protection Systems	
UL 467	Grounding and Bonding Equipment	
UL 497	Standard for Protectors for Paired-Conductor Communications Circuits	
UL 497A	Standard for Secondary Protectors for Communications Circuits	
UL 497B	Standard for Protectors for Data Communications and Fire- Alarm Circuits	
UL 1449	Standard for Surge Protective Devices	

Publication	Short Title
EIA-625	Requirements for Handling Electrostatic Discharge- Sensitive (ESDS) Device
IFC	International Fire Code
EPA 40 CFR	Protection of Environment: Hazardous Material Inventory and Reporting, Spill Control, Spill Reporting, and Disposal
ISO/IEC/IEEE 8802-15-4	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 15-4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) specifications for low-rate Wireless Personal Area Networks (WPANs)
ITU-T G.655	Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
ITU-TG.709/Y1331	Interfaces for Optical Transport Network.
ITU-TG.798	Characteristics of Optical Transport Network Hierarchy
ITU-TG 872	Architecture of Optical Transport Networks
ITU-TG 873.1	Optical Transport Network Linear Protection.
ITU-G.694.1	Spectral grids for WDM applications: DWDM Frequency Grid
ITU-G.692.2	Amplified multichannel dense wavelength division multiplexing applications with single channel optical interfaces
LPI 175	Standard of Practice for the Design - Installation - Inspection of Lightning Protection Systems

## 8 APPLICABLE PUBLICATIONS (CURRENT EDITIONS)

The following documents apply to this Performance Specification. In the event of conflict between the applicable documents and this PWS, the PWS shall take precedence. All documents cited as compliance documents shall be considered as guidance only. Nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained. Appendix A - MCB Quantico – Site Specific Equipment provides a listing of the MCB Quantico existing nodes and equipment per site.

Appendix	Document/Reference	Purpose
A	Site Specific Equipment	Provides a listing of the MCB Quantico existing nodes and equipment per site.
В	NCI Systems Engineering Plan (SEP)	Describes the Government's systems engineering process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
С	NCI Test and Evaluation Management Plan	Describes the Government's test and evaluation process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
D	PM N&I Configuration Management Plan	Describes the Government's configuration management process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
Е	NCI Risk Management Plan	Describes the Government's risk management process.  The Contractor is expected to have a similar effort that integrates with the Government's risk reporting process.
F	BTI Life-Cycle Sustainment Plan (LCSP)	Describes the Government's sustainment process.
G	BTI Item Unique Identification (IUID) Plan	Describes the Government's equipment accountability requirements and process.
Н	PM N&I Programmatic Environmental, Safety, and Occupational Health Evaluation (PESHE)	Describes the Government's Environmental, Safety, and Occupational Health (ESOH) risk management approach (strategy, processes, and procedures) to include the integration of ESOH considerations in the acquisition and systems engineering processes.
I	Quality Assurance Surveillance Plan (QASP)	Describes the method by which the Government will monitor the Contractor's overall performance. The Contractor is expected to satisfy all the requirements of the contract by leveraging the surveillance procedures and methodologies established the QASP.
J	NCI BAN Reference Architecture	
K	NCI UC Reference Architecture	
L	NCI Network Power Reference Architecture	

#### 8.1 GENERAL

The contractor shall develop an engineering design to deliver a turnkey solution that conforms to all the performance requirements specifications in this section of the PWS. The design and operation of the solution is governed by the NGEN Capability Production Document (CPD) and the BTI Statement of Need (SON) and associated Letters of Clarification (LOC). These governing documents include Key Performance Parameters (KPP) which must be maintained throughout the modernization of the communication infrastructure to be performed at MCB Quantico, and are the foundation of the systems design characteristics. Those KPPs are identified in Section 8.1.1. Additional system and subsystem specifications are identified sections 8.2 and 8.3. Specifications governing Site Preparation and Network Power are provided in section 8.4.

#### 8.1.1 SYSTEM-WIDE KEY PERFORMANCE PARAMETERS

Performance Objective	Performance Threshold	Method of Surveillance
KPP-1	Components shall be JITC compliant.	Inspection
KPP-2	The system(s) shall have an operational availability of 99.999%.	Analysis
KPP-3	The system shall have a growth capacity of 25% to support the increase in users without an equipment replacement.	Analysis
KPP-4	Installations with geographically separate Points of Presence (PoP) shall have redundant UC and BAN equipment and services at each CN connected in a split core configuration mirroring the transport boundary.	Analysis

#### 8.2 UNIFIED COMMUNICATIONS SYSTEM

The Regional UC solution shall provide business voice capability to those locations where the solution will be deployed. MCB Quantico shall include all NIPRNet users on MCB Quantico The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911) services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

#### 8.2.1 VOICE EQUIPMENT INSTALLATION AND CONFIGURATION

Delivery of voice and data services to the end-user shall be provided over a single physical infrastructure connection (port) at the end-user workstation. Physical connection of the end-user devices in series via the phone set. Logical connection for voice and data services shall be accomplished via Virtual Local Area Network (VLANs) or Software-Defined Network (SDN) virtual network.

Each new line module and gateway shall be fully wired to the MDF and equipped with all required common control and power cards, and connected to the assigned Local Session Controllers (LSCs). The contractor shall EFIST and make operational any new cards required to support a mixture of

analog. The contractor shall provide one analog gateway per DN and 8,000 knowledge workers and associated hardware. The contractor shall furnish and install equipment blocks, vertical frames, cables, Digital Cross-Connect (DSX) panels, etc., to terminate the equipped and wired capacity onto the horizontal side of the MDF or cross-connect. The contractor shall coordinate placement of equipment blocks with the TSO. The contractor shall test all endpoints after installation is complete.

## 8.2.2 EQUIPPED SUBSCRIBER PORT CAPACITY

The equipped subscriber port capacity shall be fully licensed, assigned, and activated at the time of cutover. Equipped line cards shall be distributed evenly across all media gateway shelves and line modules to prevent an outage of ports of the same type in the same workspace in the event of hardware failure. The contractor shall build temporary subscriber test lines of all equipped types on each line card module or drawer for testing equipment dial tone during System Acceptance Test (SAT).

#### 8.2.3 WIRED SUBSCRIBER PORT CAPACITY

The wired subscriber port capacity shall be provided as pre-wired hardware (i.e., shelves, drawers, common control circuit packs, etc.) and have the ability to be activated only through the use of basic switch translations and the installation of subscriber port modules and circuit packs.

#### 8.2.4 REPLACEMENT PHONE SETS

The contractor shall provide replacement phone sets at the time of systems cutover. The replacements are provided to support the operations and maintenance of the voice network after Government acceptance. The quantity of replacement phone sets to be delivered shall be 8,000.

# 8.2.5 KEY SYSTEMS ATTRITBUTES

## 8.2.5.1 REGIONAL UC SYSTEM

Performance Objective	Performance	Method of Surveillance
UC-1	The Regional UC system shall provide IP and analog voice services to each end-user on all Installations within the region.	Inspection
UC-2	The Regional UC shall provide the ability to call between regional end-users without using the softswitch backbone.	Analysis
UC-3	Voice services include business voice, voice conferencing, voice mail, and unified messaging.	Inspection
UC-4	The UC system shall have a Telecommunications Management System (TMS) that supports all the Installations within the region.	Inspection
UC-5	Support the Differentiated Service Code Points (DSCP) markings to implement QoS/CoS.	Inspection
UC-6	Provide native audio Mean Opinion Score (MOS) of 3.8, at a minimum, IAW the Telecommunications Industry Association (TIA) Telecommunications – IP Telephony Equipment – Voice Quality Recommendations for IP Telephony (TSB-116-A).	Inspection

# 8.2.6 MAJOR FUNCTIONAL REQUIREMENT

## 8.2.6.1 LOCAL SESSION CONTROLLER

Performance Objective	Performance	Method of Surveillance
LSC-1	A UC system shall consist of LSCs and Media Gateways as required at each B/P/C/S.	Inspection
LSC-2	LSCs installed at each Installation as defined above shall conform to the requirements for Assured Services Core Session Controller as defined in the UCR 2013 w/Change 2.	Inspection
LSC-3	Each LSC shall interface with the other LSCs in its region in a coordinated cluster to provide full failover capability across Installations.	Inspection
LSC-4	Each LSC shall provide local survivability in the event DISN connectivity is lost.	Inspection
LSC-5	Each LSC shall support local session management when in a disconnected state.	Inspection
LSC-6	Each LSC shall support on Base E911/NG911 routing to the PSAP or ERC, via existing Installation infrastructure.	Inspection
LSC-7	The UC systems shall provide both DSN and PSTN Directory Number assignments for each subscriber.	Inspection

Performance Objective	Performance	Method of Surveillance
LSC-8	Automatic Call Distribution (ACD) shall be provided at the region.	Inspection
LSC-9	Supported Users can utilize softphones through secure VPN from any remote location.	Inspection

## 8.2.6.2 SESSION BORDER CONTROLLER

Performance Objective	Performance	Method of Surveillance
SBC-1	SBCs shall be co-located and configured in a redundancy group.	Inspection

## 8.2.6.3 TELECOMMUNICATIONS MANAGEMENT SYSTEM

Performance Objective	Performance	Method of Surveillance
TMS-1	The TMS will be located at MCB Quantico.	Inspection
TMS-2	The TMS shall have a direct interface to Remedy for asset tracking.	Inspection

## 8.2.6.4 CUSTOMER SERVICE SUPPORT APPLICATION

Performance Objective	Performance	Method of Surveillance
CSSA-1	Customer Service Support Application (CSSA) shall be provided at the region.	Inspection
CSSA-2	CSSA shall provide call routing via Interactive Voice Recognitions (IVR) for management, administration features.	Inspection
CSSA-3	CSSA shall support 400 agents.	Inspection
CSSA-4	CSSA shall have a built in "heat map" to allow scheduling during peak usage vice time of day.	Inspection

#### 8.3 BASE AREA NETWORK

The BAN at MCB Quantico shall be developed in accordance with the reference architecture shown in Figure 2 or Figure 3 and interface with the MCEN Core Switches. The BAN consists of DNs and Edge Access Devices logically connected as depicted in Figure 2 or Figure 3. A DWDM and PON system shall be EFIST'd. They shall provide connectivity between the core nodes and the area distribution nodes. Connectivity to the end-user will be accomplished over traditional Ethernet switches and Edge Access Devices or Optical Network Terminals (ONT) located in EUBs. The BAN shall satisfy all the KSA and the Major Functional Requirements identified the following sections.

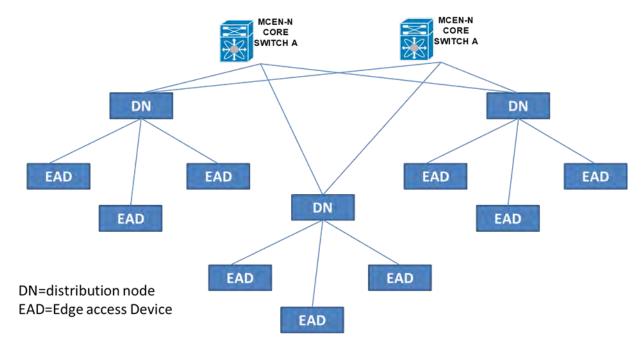


Figure 2 – BAN Reference Architecture

#### 8.3.1 KEY SYSTEMS ATTRITBUTES

#### 8.3.1.1 Base Area Network

Performance Objective	Performance	Method of Surveillance
BAN-1	Voice, video and data shall be converged on the single installation BAN.	Inspection
BAN-2	The BAN shall support multi-tenancy on the single installation infrastructure.	Inspection
BAN-3	The BAN shall be operated from a single management system executed from a centralized Network Operation Center (NOC) on MCB Quantico.	Inspection
BAN-4	The BAN shall operate within the constraints of the Installation Gateway.	Inspection

## 8.3.2 MAJOR FUNCTIONAL REQUIREMENT

#### 8.3.2.1 WAVELENGTH DIVISION MULTIPLEXING

The Optical Transport System (OTS) for the Backbone Transport shall be comprised primarily of DWDM technology to include all equipment and components to make a complete and functional Wave Selectable Switch (WSS) Reconfigurable Optical Add/Drop Multiplexers (ROADMs) nodal network elements. The OTS may include Course Wavelength Division Multiplexing (CWDM) technology in those instances in which a point-to-point connection is required between nodes with limited circuit requirements such as a linear spur to a node in a remote location or Installations that have two CNs, only. The contractor shall leverage existing optical fiber to provide a full or partial mesh topology with no single point of failure.

Performance Objective	Performance	Method of Surveillance
WDM-1	The WDM shall provide sufficient network degrees at each node to support the topology plus one spare degree.	Inspection
WDM-2	The WDM shall provide an integrated wave selectable switch Reconfigurable Optical Add/drop Multiplexer (ROADM) to support all the nodes.	Demonstration
WDM-3	Each degree shall transmit a minimum of 40G wavelengths on the initial configuration.	Test
WDM-4	The WDM network shall be upgradable to 200G and 400G wavelengths without removing the existing hardware suite (circuit card replacement is acceptable) (Objective).	Inspection
WDM-5	Path protection shall be implemented to provide high availability to each node.	Inspection

#### 8.3.2.2 PASSIVE OPTICAL NETWORK (PON)

A PON network is a converged transport schema that is designed to carry multiple services such as VoIP, Data, IP Video, and Radio Frequency (RF) Video. The common PON operational framework technologies in use are Ethernet PON (EPON), Broadband PON (BPON) and Gigabit PON (GPON). GPON conforms to the ITU T G984 series (G.984.1 through G.984.7) and provides bit rates above 1 Gbps. EPON conforms to the IEEE 802.3ah and 802.3av specifications with options for 1/1 Gbps 10/1 Gbps and 10/10 Gbps.

At a high level, a PON consists of a head-end device called an Optical Line Terminal (OLT). The OLT may be deployed at the Distribution (e.g., Main Communication Node or Area Distribution Node), and Access (e.g., End User Building) Layers. End user endpoints are equipped with ONTs that provide Ethernet, 2-wire analog Plain Old Telephone Service (POTS), and even RF video. As many as 64 (and in some cases more) ONTs connect to a PON port via a single, single mode fiber whose optical signals are combined at a passive splitter. A PON utilizes Wavelength Division Multiplexing (WDM), using

one wavelength for downstream traffic and another for upstream traffic across one single, single-mode fiber optic cable. The PON specifications provide downstream traffic to be transmitted over a single fiber on the 1490 nanometer (nm) wavelength and upstream traffic to be transmitted at 1310 nm. A third 1550 nm band is allocated for overlay services, in this case, RF (analog) video.

In PON, power to the ONT is not provided via the fiber network. If power would be needed, it is provided via copper (which could be included with fiber in the network cable). Power to the ONT can be deployed in two ways, local and remote. Remote power can be provided as centralized or distributed DC plants. Centralized DC plant requires NEC Class 1 compliant cabling while Distributed DC plant requires NEC Class 2 compliant cabling.

The distributed remote power is provided by the power unit installed at the communication closet. This enables the PDU to provide power to the desktop for the ONTs using existing copper cabling that had previously been used to provide Ethernet signal to the desktop. Since this unit is modular, it can be expanded as the needs of the zone grows. This PDU must be able to provide the proper wattage to power not only for the ONT, but also the Power over Ethernet (PoE) powered devices connected to the ONT. If existing catX cables are not available, then independent x/2 cables or composite fiber and copper pair cables can be used.

Figure 3 displays PON Connectivity in the DoD operational framework, and shows a typical installation utilizing the OLT in the Distribution (ADN) and Access (EUB) Layers of the DoD UC model.

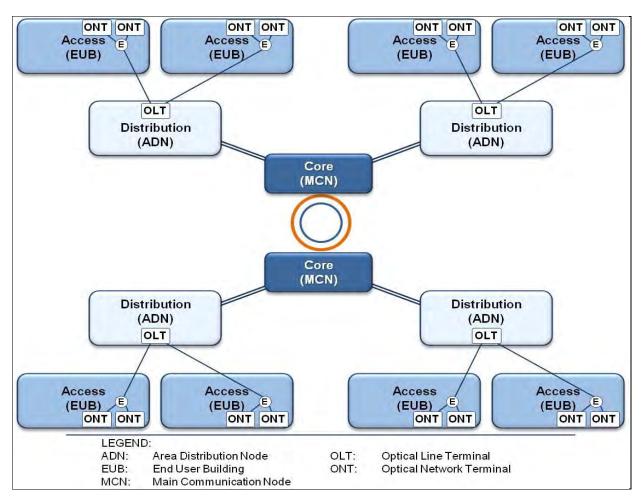


Figure 3-PON Reference Architecture

Performance Objective	Standard	Performance	Method of Surveillance
REQ001	N/A	To ensure Quality of Service (QoS), all NCI materiel solutions must provide Differentiated Services mechanisms.	N/A
	UCR EDG- 000160	The system shall provide Differentiated Services mechanisms to ensure QoS	Analysis
	Derived	The system shall provide different priority levels for users.	Analysis
	Derived	The system shall provide different priority levels for data flows.	Analysis
	UCR EDG- 000090	The Core and Distribution products shall be capable of accepting any packet tagged with a DSCP value (0-63) on an ingress port and reassign that packet to any new DSCP value (0-63)	Analysis

Performance Objective	Standard	Performance	Method of Surveillance
	Derived	Passive Optical Network shall be capable of supporting the prioritization of aggregate service classes with queuing. Queuing may be supported as Layer 2 or Layer 3 class of service (CoS)	Analysis
REQ002	N/A	Support network "slices" in campus/base environments, which enable IT managers to segment the network for specific needs.	N/A
	Derived	The solution shall support multi-tenant network services	Analysis
	Derived	The solution shall support the capability of varying agencies communicating with one another, without mixing traffic flows	Analysis
REQ003	N/A	Support Dynamic Bandwidth Allocation and Throttling, which enable IT managers to better manage the SLA.	N/A
	Derived	The solution shall support Dynamic Bandwidth Allocation and Throttling	Demonstration
REQ004	N/A	Provide support of standard protocols to build a PON network infrastructure – NNI Interface	N/A
	Derived	The solution shall support Virtual Local Area Network (VLAN)	Demonstration
	UCR EDG- 000410	The solution shall support 1000 Mbps IAW IEEE 802.3z for the NNI interface	Analysis
	UCR EDG- 000600	The solution shall support Rapid Configuration of Spanning Tree IAW IEEE 802.1w	Analysis
	Derived	The solution shall support Link Aggregation IAW IEEE 802.1AX (formerly 802.3ad)	Analysis
REQ005	N/A	Provide support of standard protocols to build a PON network infrastructure – OLT to PON Interface	N/A
	UCR EDG- 000610	The PON system shall provide one of the following PON (OLT-ONT) technologies: a. GPON IAW G.984 series (G.984.1 through G.984.7). b. EPON IAW 802.3ah. (1 Gbps). c. GEPON IAW 802.3av (10 Gbps)	Analysis
REQ006	N/A	Provide support of standard protocols to build a PON network infrastructure – UNI Interface	N/A

Performance Objective	Standard	Performance	Method of Surveillance
	Derived	The solution shall support Virtual Local Area Network (VLAN)	Demonstration
	UCR SEC- 001760	The solution shall support Port-Base Access Control IAW 802.1x	Analysis
	UCR SEC- 000080	The solution shall provide Link Layer Discover – Media Endpoint Discovery IAW ANSI TIA 1057	Analysis
	UCR SEC- 000080	The solution shall support Auto-negotiation IAW IEEE 802.3	Analysis
	Derived	The solution shall support Power over Ethernet (PoE) IAW either 802.3af-2003 or 802.3at-2009	Demonstration
REQ007	N/A	Provide support of standard management protocols	N/A
	Derived	The solution shall support SNMP V3	Demonstration
	UCR	The solution shall support Secure Shell	Demonstration
	EDG- 000820	Version 2 (SSHv2)	
	UCR EDG- 000840	The solution shall support HTTPS.	Demonstration
REQ008	N/A	Provide support for Voice Services	N/A
	UCR EDG- 000720	Latency - The PON shall have the capability to transport prioritized voice IP packets, media, and signaling end-to-end (E2E) across the PON System Under Test (SUT) as measured under congested conditions.	Test and Analysis
	UCR EDG- 000730	Jitter - The PON shall have the capability to transport prioritized voice IP packets across the PON SUT	Test and Analysis
	UCR EDG- 000740	Actual Packet Loss - The PON shall have the capability to transport prioritized IP packets across the PON SUT with packet loss not to exceed configured traffic engineered (queuing) parameters.	Test and Analysis
REQ009	N/A	Provide support for Data Services	N/A

Performance Objective	Standard	Performance	Method of Surveillance
	UCR EDG- 000780	Latency - The PON shall have the capability to transport prioritized voice IP packets, media, and signaling end-to-end (E2E) across the PON System Under Test (SUT) as measured under congested conditions.	Test and Analysis
	UCR EDG- 000790	Actual Packet Loss - The PON shall have the capability to transport prioritized IP packets across the PON SUT with packet loss not to exceed configured traffic engineered (queuing) parameters.	Test and Analysis
REQ010	N/A	Support network "scaling" in campus/base environments, which enable IT managers to upgrade network infrastructure without service interruption.	N/A
	Derived	The solution shall support add change move of the network device without the service interruption.	Demonstration
	Derived	The solution shall support unique node upgrade in distribute systems without influence on the whole system.	Analysis
REQ011	N/A	Provide redundancy in PON network.	N/A
	UCR EDG- 000990	PON shall have no single point of failure that can cause an outage of more than 96 IP telephone subscribers.	Analysis
	UCR EDG- 001020	PON shall support a Layer 2 Dynamic Rerouting protocol. Failover shall occur in no more than 1 second.	Demonstration
REQ012	N/A	Provide centralized management and monitoring of the PON	N/A
	Derived	The solution shall provide centralized management to leverage automated tools to provision, configure and manage PON network	Analysis
	Derived	The solution shall abstract all of the complexities and dependencies and provide the user with a simple set of GUI tools to easily manage and operate the entire network.	Demonstration
	Derived	The solution shall provide database backup and restore	Demonstration

Performance Objective	Standard	Performance	Method of Surveillance
	UCR	The PON product shall support Fault,	Demonstration
	EDG-	Configuration, Accounting, Performance,	
	001110	and Security (FCAPS) Network	
		Management functions	
	Derived	The solution shall provide Secured process	Analysis
		for downloading and establishing software	•
		at the Network Element	

## **8.3.2.3** CORE AND DISTRIBUTION NODES

Performance Objective	Performance	Method of Surveillance
ADN-1	Node elements shall have a minimum of 10 Gbps uplinks to the MCEN Core Switch.	Inspection
ADN-2	There shall be two BAN core routers located in Bldg. 1999 and Bldg. 24204.	Inspection
ADN-3	The BAN core routers shall be configured in active-active configuration.	Inspection
ADN-4	The BAN core routers shall perform all BAN routing.	Inspection
ADN-5	The BAN core routers shall support MPLS.	Inspection

## 8.3.2.4 EDGE ACCESS DEVICE

Performance Objective	Performance	Method of Surveillance
EAD-1	Edge Access Devices shall have a minimum of 10 Gbps uplink to the DN element.	Inspection
EAD-2	Edge Access Devices shall have uplink diversity and redundancy when allowed by the outside plant.	Inspection
EAD-3	Edge Access Devices shall have a minimum of 10 Mbps end-user interfaces.	Inspection
EAD-4	Edge Access Devices shall have a minimum 10 Gbps interface to the Wireless Access Point (WAP).	Inspection
EAD-5	Edge Access Devices shall support POE+.	Inspection

## **8.4 SITE PREPARATION**

Site preparation will be provided on an as needed basis at CNs and DNs nodes only.

#### 8.4.1 KEY SYSTEMS ATTRITBUTES

Performance Objective	Performance	Method of Surveillance
SP-1	The Network Power System shall provide sufficient uninterruptable AC and DC power to support all IT systems and components located in the facility.	Analysis
SP-2	The Network Power System shall provide sufficient transitional power in the event of loss of shore/commercial power until emergency backup comes on-line.	Demonstration
SP-3	Auxiliary infrastructure shall be installed IAW with all applicable Unified Facilities Criteria.	Inspection

### 8.4.2 MAJOR FUNCTIONAL REQUIREMENT

#### 8.4.2.1 NETWORK POWER SYSTEM

The contractor shall validate the power requirements at the VSS. If needed, the Government may request that the Contractor provide Network Power Systems at the Core and Distribution Nodes to support all the systems and subsystems delivered as a part of the proposed solution. This Network power systems shall include an AC connection to commercial or shore power, N+1 3-Phase AC UPS, Automatic Transfer Switch (ATS), self-testing network Emergency Power Off (EPO) switch, battery disconnect switch, and any necessary sub-panels, cabinet or rack power supply buss trackway and Power Distribution Units (PDUs).

Network Power Systems modernization (upgrade/replacement) will be provided on an as needed basis at Installations Core and Distribution Nodes only.

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Performance Objective	Performance	Method of Surveillance
NPS-1	All Network power panels and subpanels shall be 120/208 VAC, 3-phase, Y-connected, with separate neutral and ground conductors.	Inspection
NPS-2	Bonding of neutral and ground conductors shall be done in accordance with NFPA 70 and the NEC instruction regarding bonding of neutral to ground in a multi-panel system.	Inspection
NPS-3	AC distribution system wiring shall include a separate copper conductor marked as per NFPA 70 and the NEC instruction installed throughout all branch and feeder circuits.	Inspection
NPS-4	All network AC power panels feeding branch circuits shall be sized for not less than 25 percent growth in circuit breaker quantity.	Analysis

Performance Objective	Performance	Method of Surveillance
NPS-5	Circuit panels and circuit breakers shall not exceed 80% of the nameplate ampacity of the circuit breakers.	Inspection
NPS-6	All circuits for network equipment racks and cabinets shall be dedicated circuits.	Inspection
NPS-7	A self-testing Emergency Power Off switch shall be installed.	Demonstration

# 8.4.2.3 AC NETWORK POWER

Performance Objective	Performance	Method of Surveillance
ACP-1	A N+1, 3-Phase AC UPS shall be sized to meet designed systems power capacity, inclusive of the designed system reserve capacity.	Analysis
ACP-2	A 3-Phase UPS shall provide surge protection in a transformer-less topology and non-degenerative filtering for lighting strikes.	Inspection
ACP-3	A 3-Phase UPS shall provide load fault detection and clearing.	Demonstration
ACP-4	A 3-Phase UPS shall provide a harmonic reduction system to detect when harmonics, power factor or phase unbalance are out of limits and automatically corrects to the user-defined set point.	Demonstration
ACP-5	A 3-Phase UPS shall have the capacity to house the batteries in the same cabinet as the UPS for CNs and DNs to save floor space.	Inspection
ACP-6	A 3-Phase UPS shall have a three stage charging process that is capable of extending battery life by 50%.	Test
ACP-7	A 3-Phase UPS shall provide advanced notification prior to battery failure.	Demonstration
ACP-8	A 3-Phase UPS shall have a color touchscreen LCD interface.	Inspection
ACP-9	A 3-Phase UPS shall have internal modularity.	Analysis
ACP-10	A 3-Phase UPS shall have an internal maintenance bypass switch.	Inspection
ACP-11	A 3-Phase UPS shall have a UL 924 certification for emergency lighting.	Inspection
ACP-12	A 3-Phase UPS shall be serviceable thru the front of the cabinet. It shall have the ability to be put against the wall or in a corner.	Inspection

Performance Objective	Performance	Method of Surveillance
ACP-13	A 3-Phase UPS shall be rated an Energy Star Qualified partner with the U.S. Environmental Protection Agency and the U.S. Department of Energy.	Inspection
AACP-14	A 3-Phase UPS shall provide 99% efficiency across the operating load range.	Test
ACP-15	A 3-Phase UPS shall provide double conversion efficiency at 97% or greater.	Test
ACP-16	A 3-Phase UPS shall be equipped with a quick glance from a distance system status, via green/yellow/red LED light panel.	Inspection
ACP-17	A 3-Phase UPS shall be equipped with power monitoring and reporting software that is compatible with HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU, and BACnet IP protocols.	Inspection
ACP-18	A 3-Phase UPS shall have a safety certification that complies with the UL 1778, UL 924 Emergency Lighting and Power.	Inspection

# 8.4.2.4 DIRECT CURRENT NETWORK POWER

Performance Objective	Performance	Method of Surveillance
DCP-1	In the event a network component chassis requires DC power, a stand-alone N+1 rack mounted rectifier shall be sized and installed in the same rack to provide the required DC power capacity for that singular chassis component.	Inspection

## 8.4.2.5 NETWORK POWER DISTRIBUTION SYSTEM

Performance Objective	Performance	Method of Surveillance
NPD-1	PDUs shall have a 3-phase 120/208 VAC four-pole modular track buss way electrical distribution system above each equipment row fed from a 3-Phase UPS.	Inspection
NPD-2	The PDU track buss way power system shall be rated for 225 amps and 600 volts with each equipment row fed from a separate breaker.	Inspection
NPD-3	Each installed PDU track buss way power system shall have metering capabilities for each phase that includes an automatic cycling display that display Voltage, Current, and Power Usage, at a minimum.	Demonstration
NPD-4	A plug-in unit containing a 3-phase, 30-amp circuit breaker and a receptacle or drop-down cord with receptacle shall be installed above each rack as required to accommodate the equipment rack PDU.	Inspection
NPD-5	Equipment racks and cabinets containing equipment with "A" and "B" AC power supplies shall have two (2) plug-in drops and two (2) PDUs provided.	Inspection
NPD-6	Equipment racks and cabinets containing only passive equipment (i.e., unpowered fiber optic patch panels) do not require power drops or PDUs.	Inspection
NPD-7	Each equipment rack or cabinet shall have a combination 120/208 VAC PDU.	Inspection
NPD-8	Each PDU shall have not less than nine (9) IEC 320 standard C13 receptacles.	Inspection
NPD-9	Each PDU shall have not less than three (3) IEC 320 standard C19 receptacles.	Inspection
NPD-10	Each PDU shall have not less than twelve (12) NEMA 5-20 receptacles.	Inspection
NPD-11	Each phase in the PDU shall have a dedicated breaker.	Inspection
NPD-12	Equipment racks and cabinets containing equipment with "A" and "B" power supplies shall have two PDUs provided.	Inspection

8.4.2.6 NETWORK EMERGENCY BACKUP POWER SYSTEM

Performance Objective	Performance	Method of Surveillance
EBP-1	In the event commercial or shore power is interrupted, the 3-Phase UPS batteries shall be sized to provide uninterruptable, transitional power. A fully functional generator will be provided by the Government (B/P/C/S) as the sole source of emergency backup power.	Inspection / Demonstration
EBP-2	The batteries shall conform to the Unified Facilities Criteria (UFC) 3-520-05 and the UFC 3-520-01.	Inspection
EBP-3	The battery system shall use Valve Regulated Lead Acid (VRLA) batteries unless Lithium Ion batteries are approved by the Government.	Inspection
EBP-4	VRLA batteries shall be equipped with a battery management system to manage the battery rest and charge cycles to extend their life.	Test
EBP-5	VRLA batteries systems shall be monitored for cell failure.	Test
EBP-6	A keyed battery disconnect switch shall be installed at the exterior of the building adjacent to the entrance or in a location prescribed by the AHJ.	Inspection

## 8.4.3 AUXILLARY INFRASTRUCTURE

The contractor shall provide auxiliary infrastructure at the CNs and DNs to support the systems and subsystems delivered as a part of the proposed solution as defined by the Site Specific Requirements. Auxiliary infrastructure consists of the following: equipment racks/cabinets, bracing, seismic bracing, patch panels, ladder rack, wire cable tray, , cabling, cable management system, cable testing, bonding, and grounding.

8.4.3.1 MDF, IDF, AND BACKBOARDS

Performance Objective	Performance	Method of Surveillance
MDF-1	All additional or newly installed MDF, IDF and Backboards shall comply with the Installation Information Infrastructure Architecture (I3A).	Inspection

# 8.4.3.2 CABINETS, RACKS, AND PATCH PANELS

Performance Objective	Performance	Method of Surveillance
CRP-1	Equipment cabinets and rack mounting, dimensions, doors separation or clearances, load rating, cooling fans, spare capacities, horizontal and vertical cable management, strain relief, shall conform to UFC 3-580-1.	Inspection
CRP-2	Equipment cabinets shall have a minimum load rating of 200 pounds.	Inspection / Analysis
CRP-3	Equipment cabinets shall be equipped with a lockable, removable mesh doors.	Inspection
CRP-4	Equipment cabinets shall be equipped with factory knockouts.	Inspection
CRP-5	Equipment cabinets and racks shall have an angle support and a minimum of 46 Rack Units (RUs) and be equipped with an integrated, electrically isolated ground bar.	Inspection
CRP-6	Equipment cabinets and racks shall be black in color unless otherwise specified.	Inspection
CRP-7	Patch panels shall be provided and conform to the UFC 3-580-1.	Inspection
CRP-8	Patch panels shall be installed in, or adjacent to, the equipment racks or cabinets housing BAN equipment.	Inspection
CRP-9	TIA/EIA 568A duplex connectors on 19-inch rack-mounted panels shall be used unless otherwise directed.	Inspection
CRP-10	Fiber Optic Patch Panels (FOPPs) shall not exceed four RUs.	Inspection
CRP-11	All fiber-optic patch panels shall utilize pre-terminated tailed 12-strand closet connector housing cassette with SC duplex (unless specified otherwise) UPC ceramic connectors.	Inspection
CRP-12	Single-mode and multi-mode fiber optic cables shall be terminated on separate fiber optic patch panels.	Inspection
CRP-13	Patch panel labeling shall conform to TIA/EIA 606-A.	Inspection
CRP-14	Patch cables of varying lengths matching the patch panel they are connecting to shall be provided.	Inspection
CRP-15	Provide bend-insensitive, pre-terminated patch cords capable of being locked into place to avoid accidental disruption of services or tampering.	Inspection
CRP-16	CAT 6 copper cables shall terminate on EIA 568A 2-RU CAT 6 Certified Output Protection Protocol (COPP) Patch Panels.	Inspection
CRP-17	Copper Patch Cables: Copper patch cables shall be 4-pair, 24 American Wire Gauge (AWG) stranded UTP cable, rated for CAT6, with 8-pin modular connectors at each end.	Inspection

Performance Objective	Performance	Method of Surveillance
CRP-18	Copper patch panels shall consist of eight-position modular jacks with rear-mounted, type 110 insulation displacement connectors, category-rated for the UTP system being installed and arranged in rows or columns on 19-inch rack-mounted panels. Nineteen-inch wall-mounted panels may be utilized when necessary.	Inspection
CRP-19	Each FOPP and COPP shall have horizontal cable management either built into it or as an independent management system.	Inspection
CRP-20	All ironwork, including frames, cabinets, racks, and cable ladder racks, shall be installed IAW local seismic zone requirements and manufacturers specifications.	Inspection
CRP-21	All ironwork including frames, cabinets, racks, and cable ladder racks shall be isolated from any wall (at the anchor point), floors (at the anchor point), or ceilings with approved isolating materials.	Inspection

# 8.4.3.3 LADDER, WIRE CABLE TRAY, CONDUITS, EMT, PULL, AND SPLICE BOXES

Performance Objective	Performance	Method of Surveillance
LDR-1	A single tier cable ladder or wire tray system shall be provided to support for signal cabling above all equipment, cabinets, racks and the MDF. The signal cabling shall be separated from the power cables by not less than 12 inches. The power cable conduit system shall be located above the signal tier of rack. The cable ladder rack system shall not contact any surface of any equipment cabinets/racks.	Inspection
LDR-2	Ladder, wire cable tray, conduits and EMT, pull and splice boxes dimensions, separation and clearances, fill depth, headroom, fill ratios, bend radius, shall conform to the UFC 3-580-01 and I3A.	Inspection
LDR-3	Pull boxes or splice boxes shall conform to the guidance in I3A 3.6.1.3 and Article 314.28 of the National Electrical Code 2008 (NFPA 70).	Inspection
LDR-4	Twelve-inch wide ladder rack shall be used unless otherwise required.	Inspection
LDR-5	The ladder rack system shall be installed to run the full length of the room and the perimeter of the room. Each perpendicular row shall be arranged over the top of the equipment racks.	Inspection
LDR-6	Plastic or composite wire ways designed for fiber optic cables are permissible.	Inspection

Performance Objective	Performance	Method of Surveillance
LDR-7	Copper cabling shall not be installed in any dedicated fiber optic wire ways.	Inspection

## 8.4.3.4 BONDING AND GROUNDING

Performance Objective	Performance	Method of Surveillance
GND-1	Metal cabinets, racks, raceways, ladders, cable trays, enclosures, frames, fittings, EMT, pull boxes, FOC and Copper cable armor, Outside Plant (OSP) Point Of Entry (POE), Building Entrance Terminals (BETs) and other metal noncurrent carrying parts that are able to serve as grounding conductors, with or without the use of supplementary equipment grounding conductors, shall be effectively bonded where necessary to ensure electrical continuity and the capacity to conduct safely any fault currents likely to be imposed on them.	Inspection
GND-2	All Bonding, Grounding, Testing and Labeling shall conform to the I3A, ANSI/TIA 607-C, IEEE 1100-2005 Emerald Book, MIL-STD-419A and MIL-STD-188 124B. NFPA 70, and ANSI TIA-942, TIA/EIA-569-B, NEC Article 250 and the UFC-3-580-01.	Inspection
GND-3	A 2-hole non-twisting, irreversible, circumferential compression fittings, with a sight inspection hole lug shall be used to connect all bonding conductors to the TMGB, TGB, cabinet, rack and cable ladders.	Inspection

# **8.4.3.5** FIRE STOP

Performance Objective	Performance	Method of Surveillance
FSP-1	Any existing or newly created pathway thru walls, ceiling or floors that are utilized shall conform to the fire stop requirements found within the UFC 3-580-01, NFPA70, NEC, I3A.	Inspection

# 8.4.3.6 ENVIRONMENTAL HAZARDS

Performance Objective	Performance	Method of Surveillance
OSH-1	The contractor shall perform limited asbestos abatement in support of minor-construction work under a non-construction contract IAW with established OSHA standards.	Inspection
OSH-2	The contractor shall be expected to take the appropriate safety precaution IAW with established OSHA standards to continue to perform work in support of minor-construction work under a non-construction contract when lead-based paint is present.	Inspection

## 8.4.3.7 FIBER AND COPPER CABLING

Performance Objective	Performance	Method of Surveillance
FBR-1	All fiber planned for use between the CN and DNs shall be characterized and if less than manufacturer's requirement the Government will be notified.	Inspection
FBR-2	Plenum cables shall be used in all plenum spaces IAW the NFPA 70, or as directed by the AHJ.	Inspection
FBR-3	OSP FOC or Copper cable that extends past the POE by 50 feet, it shall comply with the NFPA 70 Section 800.113.	Inspection
FBR-4	Cables and wiring between subsystems shall be clearly and permanently labeled and conform to the TIA/EIA-606-A.	Inspection

PWS MCB QUANTICO, VIRGINIA

# 8.5 EXISTING NODES AND EQUIPMENT

The existing nodes and network and voice equipment is provided in Table 5 and Table 6. There may be additional equipment found during the verification site survey.

Table 5 – Existing Nodes and Equipment – MCB Quantico

	Existing Nodes and Equipment									
MCB Quantico	Core 0	ADN1	ADN2	ADN3	ADN4	ADN5	ADN6	ADN7	Russel Knox	
	DCO	TBS	-	-	MCU	OCS	Upshur	Weapons	-	
Building	1999	24204	3255	3300	2076	2189	26100	27282	27130C	
Zone #	8	7	4	5	3	2	-	9	1	
PBX	Nortel/Avaya SL100/CS2100 CM6	Tellabs Voice Gateway	-	Nortel RCC2	Nortel RCC2	Tellabs T1000	-	Nortel MGk9	-	
Voice Firewall	Secure Logix	-	-	-	-	-	-	-	-	
Voice Mail	Nortel	-	-	-	-	-	-	-	-	
Conference Bridge	Nortel	-	-	-	-	-	-	-	-	
SBC										
Gateways	Avaya G450	-	-	Avaya G450	Avaya G450	-	-	Avaya G450	-	
MPLS Routers	JB-CE 1	JB-CE 2	-	-	-	-	-	-	-	
SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	-	SONET Node	-	
DWDM										
Data Distribution Router	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	-	-	-	-	
ASLAN Router	Brocade	-	-	-	-	-	-	Brocade	-	
GPON OLT	Tellabs 1150	Tellabs 1150	-	-	Tellabs 1150	-	-	Tellabs 1150	-	
GPON ONTs - Qty	107	38	-	-	92	-	-	16	-	
Data Access Switch - Qty	64	57	35	24	30	22	-	53	2	

Table 6 – Existing Nodes and Equipment – Remote Sites

Existing Nodes and Equipment – Remote Sites										
D 4 634	INHZ	PKWY	SCPA	BAND	BRRK	WNYZ	ANNZ			
Remote Sites	NCR	NCR	NCR	HQMC	HQMC	HQMC	HQMC			
Data Distribution Router	CISCO 3750		CISCO 3750	CISCO 3750	CISCO 3750	CISCO 2811 CISCO 2911 ES2	-			
ASLAN Router	=	=	=	=	=	-	-			
GPON OLT	-	-	-	-	-	-	-			
GPON ONTs - Qty	=	=	=	=	=	-	-			
Data Access Switch - Qty	8	5	1	6	10	5	4			

# APPENDIX A – MCB QUANTICO – SITE SPECIFIC EQUIPMENT

Attachment 1 provides the MCB Quantico existing nodes and equipment per site.

#### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

D. SYSTEM/ITEM E. CONTRACT/PR NO. MCB Quantico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	
MCB Quartico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. A001 2. TITLE OF DATA ITEM System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  M67854-20-C-XXXX  3. SUBTITLE N/A	
1. DATA ITEM NO. A001  2. TITLE OF DATA ITEM System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  3. SUBTITLE N/A	
A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	IES
a Contractor's Internal Unclassified Information System	IES
	IES
4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE	IES
4. AUTHORITY (Data Acquisition Document No.)  DI-MGMT-82247  5. CONTRACT REFERENCE  SOW, Section 5.2  6. REQUIRING OFFICE  USMC, MCSC	1ES
7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION 14. DISTRIBUTION	IES
XX REQUIRED As Required As Required b. cop	iLJ
8 APP CODE 11 AS OF DATE 13. DATE OF SUBSEQUENT 2 ADDRESSES	Final
N/A D $N/A$ Submission $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Reg	
16. REMARKS COR 0	1 0
Block 5: Contractor shall provide an SSP in accordance with NIST SP 800-171, indicating PCO 0	0 1
whether the Contractor has implemented the security requirements, plans to implement the PEO/PfM ISSM 0	0 1
security requirements, or that the requirement is not applicable. Attached to the SSP shall be APM 0	0 1
a populated POA&M with all outstanding findings discovered during the self-audit	<u> </u>
describing compliance or non-compliance and plan of action(s) of the total list of security	
controls. This submission shall be upon award, on a quarterly basis or upon request.	
Tonicon Time succined sinuit es upon unitary, on a quantity cause of upon 15 queen	
Block 7: Inspection/acceptance requirements specified elsewhere in the contract.	
Block 9: DISTRIBUTION STATEMENT D: Distribution authorized to the Department of	
Defense and U.S. DoD contractors only. (Reason: Administrative or Operational Use)	
(Date of Determination: DDMMMYYYY). Other requests for this documentation shall be	
referred to:	
Marine Corps System Command	
Program Office	
2200 Lester St	
Quantico, VA 22134	_
	_
Blocks 10-13: The Contractor shall deliver the initial SSP and POA&M (and appropriate	
extracts thereof) quarterly, or upon Program Management Offices request. The SSP will be	
reviewed for acceptance by the Government Program Management Office (PMO). The	
PMO shall be granted full access to validate the information in the Contractor's submission	
on an ad hoc basis without notice or upon replacement or rotation of the Government PM.	
Block 14: Notification of delivery shall be made to Stephen J. Magee, COR. Any further	
distribution beyond what's listed will be authorized by the Program Management Office	
(PMO). Email addresses for Distribution list POCs:	
COR: Stephen Magee, Stephen.j.magee@usmc.mil, 703-784-4986	
PCO: Brenda Edwards, Brenda.edwards@usmc.mil, 703-784-6541	
APfM Logistics: Darin Simmons, darin.simmons@usmc.mil, 703-432-5171	
PEO/PfM ISSM: Jeffrey Miller, Jeffrey.k.miller@usmc.mil, 703-784-6591	
Note: The Government Procuring Contracting Officer (PCO) does not require the formal	
deliverable, however the Letter of Transmittal should be sent to the PCO to document	
delivery notification and compliance with this CDRL. Deliver all copies via electronic	
media where feasible, otherwise deliver in hard copy.	
15. TOTAL → 0	1 3
G. PREPARED BY H. DATE I. APPROVED BY J. DATE	
Roger Asprer Stephen Magee	2020
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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)									
A. CONTRACT LINE ITEM NO.	B. EXHIB		C. CATEGORY:	OTHER X					
000X, 000Y, 000Z	1	A CONTRACT	TDP TN						
D. SYSTEM/ITEM MCB Quantico Modernizat	tion	E. CONTRACT M67854	г/PR NO. -20-C-XXXX	F. CONTRACTOR Tec	chnology Trends	Group, LLC			
16. REMARKS (Continued)			· · **	100	<i>DJ</i> -13114 <i>B</i>	T, 220			
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#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
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- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- **Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
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- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
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- Item 15. Enter total number of draft/final copies to be delivered.
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#### FOR THE CONTRACTOR

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Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

#### CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

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Government issuing (	Contracting Officer for th	e contract/Pi	t No. listed in Block							
A. CONTRACT L	INE ITEM NO. 00Y, 000Z	B. EXHIBI	Г A		ATEGORY: P TM _	ОТН	ER X			
D. SYSTEM/ITEM										
	i iantico Modernizatio	n	M67854-			F. CONTRACTOR  Technology Trends Group, LLC				
1. DATA ITEM NO.	2. TITLE OF DATA ITEM	11	10107034-	·20-C-2	XXXX	3. SUBTITL	Technology Trends Group, LLC			
I. DATATIEM NO.				E.						
A002	Cyber Incident Re			G 4		N/A				
	Contractor's Interr				em					
	Acquisition Document No.		5. CONTRACT REF		etion 1.6.13		6. REQUIRING OFFICE USMC,	MCSC	1	
7. DD 250 REQ	DIST STATEMENT     REQUIRED	10. FREQUE		12. DA	TE OF FIRST SUB	MISSION	14. DISTRIBL	JTION		
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16. REMARKS							COR	0	1	0
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	tion/acceptance requ			ere in t	the contract.					
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	2124							<b> </b>		
Quantico, VA 22	2134									
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	Digitally signed by ASPRER.ROGER.O.1278	925001	6/17/202	20	MAGEE.STEPHE 049315259		Digitally signed by MAGEE.STEPHENJAMES.1049315259 Date: 2020.06.18 10:04:52 -04'00'	6/	18/202	20
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17. PRICE GROUP

18. ESTIMATED

TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)									
A. CONTRACT LINE ITEM NO.	B. EXHIB		C. CATEGORY:	M OTHER X					
000X, 000Y, 000Z		A CONTRACT			<u> </u>				
D. SYSTEM/ITEM  MCB Quantico Modernization	on	E. CONTRACT M67854	-20-C-XXXX	F. CONTRACTOR	R Technology Trends (	Group, LLC			
16. REMARKS (Continued)						<b>F</b> ,			
DD FORM 1423-1, FEB 2001					Reset	Page c	ofPages		

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

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(1 Data Item)

Form Approved OMB No. 0704-0188

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						// OTHER						
D. SYSTEM/ITE	M		E. CONTRAC	T/PR NO	O.	F. CONT	TRACTOR					
1. DATA ITEM NO.	2. TITLE OF DATA ITEM	Л				3. SUBTITI	LE					17. PRICE GROU
4. AUTHORITY (Data	Acquisition Document No	0.)	5. CONTRACT RE	FERENCE			6. REQUIRING	G OFFICE				18. ESTIMATED TOTAL PRIC
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUE	NCY	12. DA	TE OF FIRST SUE	BMISSION	14.	DISTRI	BUTION	o. COPIES		
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:	1 OTHER			
D. SYSTEM/ITEM	E. CONTRAC		F. CONTRACTOR			
16. REMARKS (Continued)						
DD FORM 1423-1, FEB 20	01	<u> </u>		Page	of	Pages

### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

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- **Item 3.** Enter subtitle of data item for further definition of data item (optional entry).
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- **Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- $\label{lem:constraints} \textbf{Item 6.} \quad \text{Enter technical office responsible for ensuring adequacy of the data item.}$
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d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

**DID: DI-MGMT-82247** 

#### **DATA ITEM DESCRIPTION**

Title: Contractor's Systems Security Plan and Associated Plans of Action to Implement NIST SP 800-171 on a Contractor's Internal Unclassified Information System

Number: DI-MGMT-82247 Approval Date: 20181031

AMSC Number: 9992 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: OSD-SO Project Number: MGMT-2018-049

**Applicable Forms: None** 

Use/relationship: This Data Item Description (DID) contains the data content, format, and intended use of the Contractor's system security plan (or extracts thereof), to include any associated plans of action, addressing the Contractor's internal unclassified information system(s). When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information - as defined in DFARS Clause 252.204-7012 - will be processed, stored, or transmitted on an unclassified information system that is owned, or operated by or for, the Contractor, the Contractor shall develop, document, and periodically update a system security plan(s), to include any associated plans of action, for the Contractor's internal unclassified information system in accordance with the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations. Security Requirement 3.12.4 of the NIST SP 800-171 requires that system security plans describe system boundaries, system environments of operation, how security requirements are implemented, and the relationships with or connections to other systems. Security Requirement 3.12.2 of the NIST SP 800-171 requires that plans of action describe how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's unclassified information system. The system security plan (or extracts thereof) and any associated plans of action may be used by the government as input to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). This DID contains the information that shall be conveyed within the system security plan and any associated plans of actions for the Contractor's internal unclassified information system. There is no prescribed format or specified level of detail for how that information is conveyed. There is no requirement for the government to approve the system security plan or any associated plans of action for the Contractor's internal unclassified information system, but the government may request that the Contractor submit the system security plan (or extracts thereof), and any associated plans of action, such that the government may review the Contractor's implementation of security requirements. When requested by the government, the submitted system security plan (or extracts thereof) and any associated plans of action for the Contractor's internal unclassified internal information system may: - Demonstrate to the government the Contractor's implementation or planned implementation of the security requirements for their internal unclassified information system, or

- Be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or

**DID: DI-MGMT-82247** 

operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). Requirements:

- 1. <u>Reference Documents</u>: The applicable issue of the documents cited herein, including development dates and dates of any applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format acceptable.
- 3. <u>Content</u>: The system security plan (or extracts thereof) shall include a description of system boundaries, system environments of operation, how security requirements are implemented or how organizations plan to meet the requirements, and the relationships with or connections to other systems. Any associated plans of action shall include a description how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's information system.
- 3.1. <u>Cover Page</u>: The cover page of the system security plan (or extracts thereof) and any associated plans of action shall identify the following information:
- 3.1.1. Title of the document (i.e., Systems Security Plan and Associated Plans of Action for [Name of Contractor's Internal Unclassified Information System])
  - 3.1.2. Company name
  - 3.1.3. Data Universal Numbering Systems (DUNS) Number
  - 3.1.4. Contract number(s) or other type of agreement
  - 3.1.5. Facility Commercial and Government Entity (CAGE) code(s)
  - 3.1.6. System that this System Security Plan and any associated Plans of Action addresses
  - 3.1.7. Date of latest revision
  - 3.1.8. All appropriate distribution and classification statements/markings
- 3.2. <u>System Identification</u>: The purpose of the system security plan shall be communicated in this section, to include a description of the function/purpose of the Contractor's internal unclassified information system(s)/network(s) that is (are) addressed in the plan.
- 3.3. <u>System Environment</u>: A detailed topology narrative and graphic shall be included that clearly depicts the Contractor's internal unclassified information system boundaries, system interconnections, and key components. This does not require depicting every device, but would include an instance of operating systems in use, virtual and physical servers (e.g., file, print, web, database, application), as well as any networked workstations, firewalls, routers, switches, copiers, printers, lab equipment, etc. If components of other systems that interconnect/interface with this system need to be shown on the diagram, denote the system boundaries by referencing the security plans or names and owners of the other system(s) in the diagram. Include or reference (e.g., to an inventory database or spreadsheet) a

### **DID: DI-MGMT-82247**

complete hardware and software inventory, including make/model/version and maintenance responsibility.

- 3.4. Security Requirements: Describe how the Contractor addresses/will address security requirements in each of the following NIST SP 800-171 security requirement families (including basic and derived requirements) for protecting covered defense information in the Contractor's systems and organizations:
  - 3.4.1. Access Control (3.1.1 3.1.x)
  - 3.4.2. Awareness and Training (3.2.1 3.2.x)
  - 3.4.3. Audit and Accountability (3.3.1 3.3.x)
  - 3.4.4. Configuration Management (3.4.1 3.4.x)
  - 3.4.5. Identification and Authentication (3.5.1 3.5.x)
  - 3.4.6. Incident Response (3.6.1 3.6.x)
  - 3.4.7. Maintenance (3.7.1 3.7.x)
  - 3.4.8. Media Protection (3.8.1 3.8.x)
  - 3.4.9. Personnel Security (3.9.1 3.9.x)
  - 3.4.10. Physical Protection (3.10.1 3.10.x)
  - 3.4.11. Risk Assessment (3.11.1 3.11.x)
  - 3.4.12. Security Assessment (3.12.1 3.12.x)
  - 3.4.13. System and Communications Protection (3.13.1 3.13.x)
  - 3.4.14. System and Information Integrity (3.14.1 3.14.x)
- 3.5. <u>Plans of Action</u>: In accordance with Security Requirement 3.12.2, provide any plans of action developed to address how and when the Contractor will implement any security requirements not yet implemented, identify known deficiencies and vulnerabilities in the contractor's internal unclassified information system, how and when the Contractor will correct identified deficiencies and reduce or eliminate vulnerabilities in the Contractor's system.

### DI-MGMT-XXXXX

#### **DATA ITEM DESCRIPTION**

Title: Cyber Incident Reporting for a Contractor's Internal Unclassified Information System(s)

Number: DI-MGMT-XXXXX Approval Date: TBD
AMSC Number: YYYY Limitation: TBD
DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: TBD Project Number: MGMT-XXXX-XXX

**Applicable Forms: None** 

**Use/relationship:** When DFARS Clause 252.204-7012 is included in a contract for which Controlled Unclassified Information (CUI) – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted during the course of executing the terms a Department of Defense (DoD) contract, cyber incidents shall be reported to the Defense Cyber Crime Center (DC3) via the DIBNet portal.

This Data Item Description (DID) contains the information that is required of the Contractor submitting the incident report to DC3.

This information, once reported, will be shared by DC3 as threat information between the DoD and DIB companies. When DC3 receives a DFARS cyber incident report, DC3 will send an unclassified encrypted email containing the submitted incident report to the government Contracting Officer point of contact identified in the submitted report to have the report placed in the contract file to document the action, with a courtesy copy to the following:

- Director, DC3/DCISE
- Director, OSD DAMO
- Director, DIB CS/IA Program Office
- Contract Program Management Office

# **Requirements:**

- 1. Format: Use the format prescribed through the DIBNet Portal at <a href="http://dibnet.dod.mil">http://dibnet.dod.mil</a>.
  - Under "DoD's DIB Cybersecurity (CS) Program" on the right side of the page, select "Voluntary Report".
  - Since this is reporting is to satisfy a contractual requirement, select "Mandatory Incident Report".
  - Follow the "Mandatory Incident Report" wizard for the following:
    - o General Information
    - I. Company Identification
    - II. Company POC Information
    - III. Contract or other Agreement
    - IV. Incident Information
    - V. Ancillary Information

End of DI-MGMT-XXXX

DID: DI-SCRE-82258

### **DATA ITEM DESCRIPTION**

Title: CONTRACTOR'S RECORD OF TIER 1 LEVEL SUPPLIERS RECEIVING/ DEVELOPING COVERED

**DEFENSE INFORMATION** 

Number: DI-SCRE-82258 Approval Date: 20190313

AMSC Number: 10008 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: RS Project Number: MGMT-2019-010

**Applicable Forms: None** 

**Use/relationship:** When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted on a tier 1 level supplier's internal unclassified information system. (DFARS Clause 252.204-7012 can be found at https://www.acq.osd.mil/dpap/dars/dfars/html/current/252204.htm)

- a. This Data Item Description (DID) contains the information that is required of the Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information. This information will be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned or operated by, or for, the contractor (i.e. contractor's internal unclassified information system). This information will:
- (1) Demonstrate to the government the Contractor's ability to restrict the dissemination of covered defense information specified in, or developed under, the contract to subcontractors that execute requirements that involve the covered defense information.
- (2) Demonstrate to the government the Contractor's ability to ensure that their tier 1 level suppliers safeguard covered defense information in accordance with DFARS Clause 252.204-7012.
- b. This DID contains the format, content, and intended use information for the data deliverable resulting from the work task described in the contract.

# Requirements:

- 1. Reference Documents: The applicable issue of the documents cited herein, including approval dates and dates of applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format is acceptable.
- 3. Content: The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information must include a description of how the Contractor will identify and restrict the dissemination of covered defense information to subcontractors who require the covered defense information to execute the requirements in their contract and how the Contractor will ensure that their tier 1 level suppliers safeguard covered defense information with the requirements of DFARS Clause 252.204-7012. The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information shall include the following:

3.1.	Cover Page: The cover page of the Contractor's Record of Tier 1 Level Suppliers
Receivir	ng/Developing Covered Defense Information shall include:

**DI-SCRE-82258** 

- a. Title of the document (i.e., [Name of Contractor] Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information
- b. Contractor's Data Universal Numbering Systems (DUNS) and Commercial and Government Entity (CAGE) code numbers
- c. Contract number(s) or other type of agreement (if available)
- 3.2. Tier 1 Level Supplier Information (for each Tier 1 Level Supplier receiving/developing covered defense information associated with this contract)
- a. Supplier Name
- b. Supplier contract and/or agreement number (if available)
- c. Supplier Point of Contact: name, email, and phone number
- d. Date the Tier 1 Level Supplier sub contract was put in place
- e. Number of sub contracts with Tier 1 Level Supplier
- f. Supplier contract and/or agreement contains or will contain substance of DFARS Clause 252.204-7012 Y/N
- g. Supplier contract and/or agreement contains or will contain cyber security measures and/or requirements other than those identified in DFARS Clause 252.204-7012 and National Institute of Standards and Technology (NIST) Special Publication (SP) 800- 171 Rev 1: Y/N (NIST SP 800-171 can be found at https://csrc.nist.gov/publications/detail/sp/800-171/rev-1/final
- h. Contractor's DUNS and CAGE numbers:

# DID: DI-SCRE-82258

- i. Supplier has conducted or will conduct a self-assessment in accordance with NIST SP 800-171A:Y/N (NIST SP 800-171A can be found at https://csrc.nist.gov/publications/detail/sp/800-171a/final)
- j. Supplier System Security Plan and Associated Plans of Action in accordance with NIST SP 800-171 Rev 1 Security Requirement 3.12.4 and 3.12.2
- k. List of Supplier's Tier 1 Level Suppliers receiving and/or developing covered defense information

END OF DI-SCRE-82258

Site	C9300L-24P-4X-A	C9300L-48P-4X-A	C9300-48P-A 2X	C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X	C9300-48P-A 7X	4 Port Switch	8 Port Switch	C9500-48Y4C-A	SFP-10G-LR++=	Total Ports per Site
QUAN	121	52	50	237	10	6	0		0	18	950	19,944
GPON	0							49			0	0
INHZ	4	2	6							2	30	480
PKWY	0	0		15							12	720
SCPA	0	0		3							4	144
BAND	0	0	0								0	0
BRRK	0	0	0	0						0	0	0
WNYZ	0	0	0	0						0	0	0
ANNZ	2	1		3						0	10	240
											•	
Total	127	55	56	258	10	6	0	49	0	20	1006	21,528

\*\*These 8 port switches will convert to C9300L-24P-4X-A switches once we validate through the VSS

**These 4 port switches will convert to C9300L-24P-4X-A switches once we validate through th	e VSS
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C9300L-24P-4X-A	127
C9300L-48P-4X-A	55
C9300-48P-A	330
Total EUB Switches	512
C9300-48P-A With NM-8X	234
C9300-48P-A With No NM	96
STACK-T1-3M	24
CAB-SPWR-150CM	24

NOTE: Total switches proposed does not currently take into account the 25% growth requirement. This estimate is based on a 1 for 1 refresh and included necessary licensing to support SDA/Multi-tenancy) We will dial this number in following the VSS which will then shed light on current utilization with projected growth factored in

Host Name	Device Model	C9300L-24	C9300L-48	C9300-48P-A 2X C9300-48P-A 3X	C9300-48P-A 5X	C9300-48P-A 6X C9300-48P-A 7X	8 Port	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
QUAN-U03-AS-21	WS-C3560V2-24TS-S	1							4	Bldg_0711_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3HJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-14	WS-C3560V2-24TS-S	1							4	Bldg_0716_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X379	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-34	WS-C3560V2-48TS-S		1							Bldg_1001_Floor_0001_Room_0001_Rack_0001_	FDO1719Y0XA	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-58	WS-C3560V2-24TS-S	1								Bldg_1002_Floor_0001_Room_0001_Rack_0001_	FDO1437X020	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-25	WS-C4506-E		5				ļ			Bldg_1019_Floor_0001_Rm_Telco_Rack_0001_	SPE1730008V	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-46	WS-C3560V2-24TS-S	1								Bldg_1304_Floor_0001_Room_Telco1_Rack_0001_	FD01437X376	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-23	WS-C3560V2-24TS-S	1								Bldg_13201_Floor_0001_Room_Closet_Rack_0001_	FD01437X039	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-29	WS-C3560V2-48TS-E		1				<u> </u>		1	Bldg_15_Floor_0001_Room_0001_Rack_0001_	FD01529X1WX	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-60	WS-C3560V2-24TS-S	1					<u> </u>			Bldg_15000_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2NH	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-61	WS-C3560V2-24TS-S	1					<u> </u>			Bldg_15001_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2NU	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-62	WS-C3560V2-24TS-S						<u> </u>			Bldg_15002_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2RP	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-64	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15004_Floor_0001_Rm_Telco1_Rack_0001_	FD01645Y139	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-65							<u> </u>		1	Bldg_15005_Floor_0001_Rm_Telco1_Rack_0001_	FD01645Y12X	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-66	WS-C3560V2-24TS-S						<u> </u>			Bldg_15006_Floor_Basement_Room_Telco1_Rack_0001	FD01645Y13J	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-67	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15007_Floor_0001_Rm_0001_Rack_0001_	FD01645Y13L	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-68	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_15008_Floor_0001_Rm_0001_Rack_0001_	FD01643Y2RW	NCR QUAN Nodes		QUAN QUAN
QUAN-U08-AS-69							-		1	Bldg_15009_Floor_0001_Rm_0001_Rack_0001_	FD01645Y138	NCR QUAN Nodes	NCR NCR	
QUAN-U08-AS-41	WS-C3560V2-24TS-S WS-C3560V2-24TS-S						<u> </u>			Bldg_17_Floor_0001_Room_0001_Rack_0001_	FD01437V146	NCR QUAN Nodes		QUAN
QUAN-U08-AS-42	WS-C3560V2-2415-5 WS-C4503-E			2			-			Bldg_17_Floor_0001_Room_0002_Rack_0001_  Bldg 17 Floor 2 Room 219 Rack 0001	FD01437V2AQ	NCR QUAN Nodes NCR QUAN Nodes	NCR	QUAN QUAN
QUAN-U08-AS-43		_	1	2							FXS1735Q2AB	,-	NCR	
QUAN-U08-AS-27	WS-C3560V2-48TS-S WS-C4503-E		1	2						Bldg_1775_Floor_0001_Rm_Telco1_Rack_0001_	FDO1633X19P	NCR QUAN Nodes	NCR NCR	QUAN QUAN
QUAN-U08-AS-82 QUAN-U05-AS-20	WS-C4503-E WS-C3560V2-24TS-S	-	-	<del>                                     </del>						Bldg_1775_Floor_0001_Room_telco1_Rack_0001_ bldg 1775 Floor 1 Room 0001 Rack 0001	SPE1735003S FDO1437X02V	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U05-AS-20 QUAN-U05-AS-21	WS-C3560V2-241S-S WS-C3560V2-48TS-S		4							bldg_1775_Floor_1_Room_0001_Rack_0001	FDO1437X02V FDO1633X19U	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U05-AS-21 QUAN-U08-AS-47	WS-C3560V2-4815-5 WS-C4503-E	-	1	3							SPE171500KE	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-47 QUAN-U08-AS-74	WS-C4503-E WS-C4503-E	+	1	2						Bldg_1776_Floor_0001_Room_Telco1_Rack_0001  Bldg_1998_Floor_0001_Room_Telco_1_Rack_0001	SPE171300KE SPE134300YL	NCR QUAN Nodes  NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-74	WS-C3560V2-48TS-E		1	2							FDO1529X1X5		NCR	QUAN
QUAN-U08-AS-44 QUAN-U08-DR-01	WS-C6509-E		1					1	4	Bldg_1999_Floor_0001_Room_0001_Rack_0001_ Bldg_1999_Floor_0001_Room_Telco1_Rack_0001	SMC1643006Z	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-DR-02	WS-C6509-E							1	•		SMC16430072	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DR-02 QUAN-U08-AS-04	WS-C3560V2-48TS-S		1					1		Bldg_1999_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X19A	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-04	WS-C4506-E	_	1	3						bldg_2004_Floor_1_Room_0117_Rack_0001  Bldg_2004_Floor_1_Room_TELCO1_Rack_1	FXS1732Q3ZC	NCR QUAN Nodes	NCR	QUAN
	WS-C4506-E WS-C4506-E	_		3							- ·		_	QUAN
QUAN-U08-AS-38 QUAN-U08-AS-39	WS-C4506-E WS-C4506-E	_		3						Bldg_2006_Floor_0001_Room_108_Rack_0001_	FXS1732Q3WE FXS1732Q3ZU	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-40	WS-C4506-E WS-C4506-E	_		3						Bldg_2006_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q320 FXS1731Q4AY	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-40	WS-C3560V2-48TS-S	_	1	3						Bldg_2006_Floor_3_Room_308_Rack_1_ Bldg_2006_Floor_Basement_Room_B014_Rack_1	FDO1633X1BR	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U08-AS-21	WS-C4506-E	_	1	3							FXS1732Q3CN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-21	WS-C4506-E WS-C4506-E			3						Bldg_2008_Floor_0001_Room_Telco1_Rack_0003_ Bldg_2008_Floor_0003_Room_0003_Rack_0001	SPE173000A4	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-20	WS-C4506-E			3							SPE173000A4 SPE173000C9	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-20	WS-C4506-E WS-C4506-E			3						Bldg_2008_Floor_2_Room_231_Rack_2_	FXS1732Q406	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-08	WS-C4506-E			3						Bldg_2009_Floor_0002_Room_0002_Rack_0001_ Bldg_2009_Floor_3_Room_332_Rack_1	SPE172801YN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-31	WS-C4506-E			3						Bldg 2010 Floor 0002 Rm 211 Rack 0001	SPE17300087	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-32	WS-C4506-E			3			1			Bldg 2011 Floor 0001 Rm 116 Rack 0002	SPE17300087 SPE17300096	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-21	WS-C3560V2-48TS-E		1							Bldg 2013 Floor 0001 Room 0001 Rack 0001	FDO1529X1XV	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-20	WS-C3560V2-24TS-S	1	1				1			Bldg 2013 Floor 1 Room BreakRm Rack 1	FD01329X1XV FD01437V110	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-22	WS-C3560V2-48TS-E	-	1				1		1	Bldg 2014 Floor 0001 Room Telco1 Rack 0001	FD01437V110	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-70	WS-C3560V2-48PS-S		1							Bldg 2015 Floor 0001 Rm Telco1 Rack 0001	FD01529X1XG	NCR QUAN Nodes	NCR	QUAN
OUAN-U04-AS-09	WS-C3560V2-48TS-S		1				1			Bldg 2032 Floor 0001 Room 000 Rack 001	FD01723Y2D5	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-26	WS-C4506-E		1	3						Bldg_2032_Floor_0001_Room_Telco1_Rack_0001_	SPE173000BS	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-24	WS-C3560V2-48TS-S		1							Bldg 2032 Floor 0001 Room Telco2 Rack 0001	FDO1633X1A2	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-01	WS-C4506-E		1	2			1			Bldg 2034 Floor 0001 Room Telco1 Rack 0001	SPE1728020L	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-02	WS-C4506-E			3						Bldg 2034 Floor 1 Rm TelcoSouth Rack 3	SPE17280208	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-10	WS-C3560V2-48TS-S		1							Bldg 2043 Floor 1 Rm 124 Rack 1	FDO1636Y15K	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-11	WS-C4503-E		1	2			1			Bldg 2043 Floor 1 Room EMB Rack 1	SPE134300ZY	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-12	WS-C4506-E	+	<b>†</b>	2						Bldg 2043 Floor 1 Room Telco 1 Rack 0002	FXS1731Q4AR	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-46	WS-C3560V2-24TS-S	1								Bldg 2045 Floor 0001 Room 0001 Rack 0001	FD01437V125	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-17	WS-C4506-E	+ - '	†	2						Bldg 2048 Floor 0001 Room Telco1 Rack 0001	FXS1732Q3W0	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-17	WS-C4506-E	+	<b>†</b>	3						Bldg 2076 Floor 0001 Room 0001 Rack 0001	FXS1732Q411	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-02	WS-C4506-E	+	<b>†</b>	3						Bldg 2076 Floor 0001 Room 0006 Rack 0001	FXS1732Q411	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-A3-02	WS-C6506-E							1	-	Bldg 2076 Floor 0001 Room 0006 Rack 0001	SAL172264PK	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-DR-02	WS-C6506-E	+	<b>†</b>					1	1	Bldg 2076 Floor 0001 Room 0006 Rack 0001	SAL172264PJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-DR-02 QUAN-U03-AS-04	WS-C4506-E WS-C4506-E	+	<del>                                     </del>	2				1	2	Bldg 2076 Floor 0002 Room 0002 Rack 0001	FXS1732Q3ZG	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-04 QUAN-U08-AS-35	WS-C4506-E WS-C3560V2-48TS-E	+	1							Bldg 2077 Floor 0002 Room 0002 Rack 0001	FDO1529X1X4	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-35	WS-C3560V2-48TS-E WS-C3560V2-48TS-E	+	1							Bldg 2077 Floor 0002 Room 0210 Rack 0001	FD01529X1X4 FD01529X263	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-36	WS-C4506-E		1	2			1			Bldg 2077 Floor Basement Rm B28 Rack 0001	FXS1732Q3WC	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-36	WS-C4506-E WS-C4506-E	+	<del>                                     </del>	3						Bldg 2079 Floor 1 Rm 138 Rack 1	FXS1732Q3WC FXS1732Q412	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-17 QUAN-U08-AS-18	WS-C4506-E WS-C4506-E		1	3						Bldg 2079 Floor 2 Rm 226 Rack 1	SPE17280245	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-18	WS-C4506-E WS-C3560V2-24TS-S	1	<del>                                     </del>							bldg 2080 Floor 1 Room 0001 Rack 0001	FD01437V291	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-81	WS-C4503-E		1	2						Bldg 2082 Floor 0001 Room 115 Rack 0001	SPE171500KJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-32	WS-C4503-E WS-C3750G-48PS-S	+	1							Bldg 2082 Floor 0001 Room B12 Rack 0001	FOC1109Y2F1	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-26 QUAN-U03-AS-40	WS-C3750G-48P-S		1	2						Bldg 2084 Floor 0001 Room Telco1 Rack 0001	FDO1719H3KR,FDO1713Z0RP	•	NCR	QUAN
QUAN-U03-AS-40 QUAN-U03-AS-43	WS-C3750X-48P-S WS-C3750X-48P-S		<u> </u>	2						Bldg 2084 Floor 0001 Room Telco1 Rack 0001  Bldg 2084 Floor 0001 Room Telco1 Rack 0001	FDO1719H3KK,FDO171320KF	•	NCR NCR	QUAN
QUAN-U03-AS-43 QUAN-U03-AS-41	WS-C3750X-48P-S WS-C3750X-48P-S		-	3						Bldg 2084 Floor 0001 Room Telco1 Rack 0001  Bldg 2084 Floor 0002 Room Telco2 Rack 0001	FDO1720R1HM,FDO1608R11		NCR NCR	QUAN
QUAN-U03-AS-41 QUAN-U03-AS-42	WS-C3750X-48P-S WS-C3750X-48P-S	+	1	3						Bldg 2084 Floor 0002 Room Telco2 Rack 0001  Bldg 2084 Floor 0003 Room Telco3 Rack 0001	FDO1720R1WE,FDO1719H3L		NCR NCR	QUAN
-		+	_	3							,			QUAN
QUAN-U04-AS-07	WS-C3560V2-48TS-E		1						4	Bldg_2100_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WP	NCR QUAN Nodes	NCR	_

_					<u></u>				<u>_</u>				
QUAN-U04-AS-08	WS-C3560V2-48TS-S		l e					2	Bldg_2100_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X190	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-43	WS-C4503-E		2					4	Bldg_2105_Floor_0001_Room_Telco1_Rack_0001_	SPE171500L0	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-27	WS-C3560V2-24TS-S	1						2	Bldg_2105_Floor_0002_Room_Telco2_Rack_0001_	FDO1437V10K	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-49	WS-C3560V2-24TS-S	1						4	Bldg_2105T_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y19S	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-12	WS-C3560V2-24TS-S	1						4	Bldg_2106_Floor_0001_Room_0164_Rack_1_	FDO1438X004	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-51	WS-C3560V2-24TS-S	1						4	Bldg_2110_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y191	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-11	WS-C3560V2-24TS-S	1						4	Bldg_2117_Floor _0001_Room_Telco1_Rack_0001_	FDO1437X36H	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-15	WS-C3560V2-24TS-S	1						4	Bldg_2118_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V11J	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-01	WS-C4506-E		3	3				4	Bldg_2121_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3W6	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-60	WS-C3560V2-24TS-S	1						4	Bldg_2122_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y13Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-61	WS-C3560V2-24TS-S	1						4	Bldg_2123_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y121	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-44	WS-C3560V2-24TS-S	1						4	Bldg_2124_Floor_0001_Room_Teco1_Rack_0001_	FDO1438X05W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-84	WS-C3560V2-24TS-S	1						4	bldg_2132_Floor_1_Room_0119_Rack_0001	FDO1437X3DS	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-06	WS-C3560V2-24TS-S	1						4	Bldg_2177_Floor_1_Room_1_Rack_Telco1_	FDO1645Y13Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-08	WS-C3560V2-24TS-S	1						4	Bldg_2179_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X01L	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-04	WS-C3560V2-24TS-S	1						4	Bldg_2187_Floor_0001_Room_Teco2_Rack_0001_	FDO1437X01Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-03	WS-C3560V2-24TS-S	1						2	Bldg_2187_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X3LL	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-22	WS-C3560V2-24TS-S	1						4	Bldg_2189_Floor_0001_Room_Telco1_Rack_0001_	FDO1645Y14Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-DR-01	WS-C6506-E						1		Bldg 2189A Floor 0001 Room Telco1 Rack 0001	SAL1633KRTA	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-DR-02	WS-C6506-E						1		Bldg 2189A Floor 0001 Room Telco1 Rack 0004	SAL17236L1N	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-07	WS-C4506-E		3	3				4	Bldg 2189N Floor 0001 Room Telco1 Rack 0001	SPE173000DQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-07	WS-C4506-E		2						Bldg_2200_Floor_0001_Room_153A_Rack_0001_	FXS1732Q408	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-06	WS-C4503-E		2						Bldg 2200 Floor 0001 Room B-wing Rack 0001	SPE1343012Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-05	WS-C4503-E		2	1					Bldg 2200 Floor 0001 Room C-wing Rack 0001	SPE134300VS	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-02	WS-C4506-E		3	3					Bldg 2200 Floor 0001 Room Telco1 Rack 0003	FOX1338GZZK	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-08	WS-C4506-E			3		<b>†</b>	1		Bldg 2200 Floor 0002 Room 207 Rack 0001	FOX1338GWXX	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-09	WS-C4506-E		3	3					Bldg 2200 Floor 0002 Room 229 Rack 0001	FXS1732Q3Z1	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-10	WS-C4506-E			3	<del>                                     </del>				Bldg 2200 Floor 0002 Room 252 Rack 0001	FOX1338GZZL	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-03	WS-C4503-E		2						Bldg 2200 Floor 000B Room B20B Rack 0002	SPE1343012R	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-28	WS-C6506-E		2						Bldg 2200 Floor 000B Room B65 Rack 0001	SAL172264NQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-04	WS-C4503-E		2						Bldg 2200 Floor Basement Room A-wing Rack 0001	SPE1340004Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-12	WS-C4506-E			1					Bldg 2201A Floor 0001 Room 110 Rack 0001	FXS1732Q3CV	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-DR-01	WS-C6506-E			,					Bldg 2201A Floor 0001 Room Telco1 Rack 0001	SAL172369MW	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-DR-02	WS-C6506-E	_							Bldg 2201A Floor 0001 Room Telco1 Rack 0001	SAL172264PD	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-20	WS-C4506-E		3						Bldg 2202 Floor 0001 Room 105 Rack 0001	FXS1732Q3W5	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-22	WS-C4500-E WS-C4506-E								Bldg 2202 Floor 0002 Room 0210 Rack 0001	SPE173000BF	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-18	WS-C4506-E								Bldg 2202 Floor 000B Room 0001 Rack 0001	FXS1732Q3VQ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-13	WS-C4506-E								Bldg 2203 Floor 1 Room Telco 1 Rack 1	FOX1335GRHE	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-32	WS-C4500-E WS-C4503-E		3	2						SPE171500KF	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-26	WS-C3560V2-48TS-E		2						Bldg_2203A_Floor_0001_Room_0001_Rack_0001_	FD01529X1WQ	NCR QUAN Nodes	NCR	QUAN
	WS-C4503-E		3						Bldg_2204_Floor_0001_Room_114_Rack_0001_		-	NCR	QUAN
QUAN-U06-AS-24	WS-C4503-E WS-C4506-E		2	,					Bldg_2204_Floor_Basement_Room_B17_Rack_0001_	FXS1735Q2AF	NCR QUAN Nodes		
QUAN-U06-AS-16				3					Bldg_2207_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3WH	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-15	WS-C3560V2-48TS-E		<u> </u>						Bldg_2207_Floor_0002_Room_0002_Rack_0002_	FDO1529X1XU	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-14	WS-C4506-E			3					Bldg_2207_Floor_000B_Room_B05_Rack_0001_	FOX1338GZZE	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-34	WS-C4503-E		2						Bldg_2208_Floor_1_Room_Telco1_Rack_1_	FXS1733Q0HZ	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-31	WS-C4506-E		1	3					Bldg_2209T_Floor_1_Room_Telco1_Rack_1_	SPE1728024H	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-29	WS-C4506-E			3					Bldg_2210_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-30	WS-C4506-E		ļ	3					Bldg_2210_Floor_0002_Room_Telco2_Rack_0001_	FXS1732Q3WW	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-19	WS-C3560V2-24TS-S	1		1	<u> </u>	1			Bldg_2247_Floor_0001_Room_0001_Rack_0001_	FD01438X02R	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-21	WS-C3560V2-24TS-S	1		1		<b> </b>			Bldg_2248_Floor_0001_Room_0001_Rack_0001_	FD01437X02Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U06-AS-33	WS-C3560V2-24TS-S	1		1		<b> </b>			Bldg_2249_Floor_0001_Room_0001_Rack_0001_	FDO1437V12W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-72	WS-C4506-E		1 3	3					Bldg_2300_Floor_1_Room_Telco1_Rack_1_	FXS1732Q3XD	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-71	WS-C4506-E		3	3		<b> </b>			Bldg_2300A_Floor_1_Room_Telco1_Rack_1_	FXS1732Q0DN	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-73	WS-C4506-E		1 3	3		<b> </b>			Bldg_2300B_Floor_1_Room_Telco1_Rack_1_	SPE173000C6	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-10	WS-C3560V2-24TS-S	1		-					Bldg_2321_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-64	WS-C3560V2-24TS-S	1		-		<b> </b>			Bldg_23402_Floor_1_Room_1_Rack_1	FDO1645Y13A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-41	WS-C3560V2-24TS-S	1				1			Bldg_24004_Floor_1_Room_Telco_Rack_1_	FDO1438X01H	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-58		4.1							Bldg_24005_Floor_1_Room_0001_Rack_1_	FDO1437X3GR	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-24TS-S	1	†		i I			4	Bldg_24006_Floor_0001_Room_telco10_Rack_0001_	FDO1437V0YJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-04	WS-C3560V2-24TS-S	1					+						
QUAN-U07-AS-75	WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1							Bldg_24008_Floor_1_Room_0001_Rack_1_	FDO1437X3GZ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E	1 1 1	3	3				4	Bldg_24009_Floor_0001_Room_0152_Rack_0001_	FDO1437X3GZ FXS1732Q3WY	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S	1 1 1	3	3				4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1	FDO1437X3GZ FXS1732Q3WY FDO1633X18D	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR	QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S	1 1 1	3	3				4	Bldg_24009_Floor_0001_Room_0152_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0	NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3				4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S	1 1 1 1 1 1 1	3	3				4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1	3	3				4 4 4 4	Bidg_24009_Floor_0001_Room_0152_Rack_0001_ Bidg_24015_Floor_1_Room_Telco1_Rack_1_ Bidg_24017_Floor_0001_Room_telco1_Rack_0001_ Bidg_24018_Floor_0001_Room_0001_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3				4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1	3	3				4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_Office_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3					4 4 4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_0ffice_Rack_0001 Bldg_24144_Floor_0001_Room_0001_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1		3 3 3 3 3 5 5				4 4 4 4 4 4 4 4	Bldg_24009_Floor_0001_Room_0152_Rack_0001 Bldg_24015_Floor_1_Room_Telco1_Rack_1 Bldg_24017_Floor_0001_Room_telco1_Rack_0001 Bldg_24018_Floor_0001_Room_0001_Rack_0001 Bldg_24114_Floor_0001_Room_0000_Rack_0000 Bldg_24142_Floor_0001_Room_0ffice_Rack_0001 Bldg_24144_Floor_0001_Room_0001_Rack_0001 Bldg_24157_Floor_0001_Room_Telco1_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-27 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30 QUAN-U07-AS-34	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				4 4 4 4 4 4 4 4 2	Bidg 24009_Floor_0001_Room_0152_Rack_0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-28 QUAN-U07-AS-01 QUAN-U07-AS-30 QUAN-U07-AS-30 QUAN-U07-AS-31 QUAN-U07-AS-31	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2	Bidg 24009_Floor_0001_Room_0152_Rack_0001_	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN
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QUAN-U07-AS-75 QUAN-U07-AS-10 QUAN-U07-AS-42 QUAN-U07-AS-44 QUAN-U07-AS-47 QUAN-U07-AS-01 QUAN-U07-AS-06 QUAN-U07-AS-30 QUAN-U07-AS-34 QUAN-U07-AS-31 QUAN-U07-AS-35 QUAN-U07-AS-35 QUAN-U07-AS-35	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C3560V2-48TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				4 4 4 4 4 4 4 2 2 2 4	Bidg 24009 Floor 0001 Room 0152 Rack 0001	FD01437X3GZ FXS1732Q3WY FD01633X18D FD01633X1B0 FD01436X3LR FD01704Y2SS FD01437V12H FD01436X22U FD01633X1AK FXS1646Q40C SPE17300085 FXS1647Q04E FD01436X3KV	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN

QUAN-U07-AS-48	WS-C3560V2-48TS-S		1					4	Bldg_24193_Floor_1_Rm_Telco1_Rack_0001_	FDO1633X19T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-26	WS-C3560V2-24TS-S	1	L					4	Bldg_24193A_Floor_1_Room_Telco 1_Rack_1_	FDO1645Y19A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-43	WS-C3560V2-48TS-S		1					4	Bldg_24194_Floor_0002_Room_Telco1_Rack_0001_	FDO1633X19F	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-03	WS-C3560V2-24TS-S	1	L					4	4 Bldg_24195_Floor_0001_Room_0001_Rack_0001_	FDO1645Y199	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-36	WS-C3560V2-24TS-S	1	L					4	4 Bldg_24196_Floor_1_Room_Telco1_Rack_1_	FDO1437V28G	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-51	WS-C3560V2-24TS-S	1	L					4	Bldg_24197_Floor_0001_Room_telco1_Rack_0001_	FDO1437X3DK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-79	WS-C3560V2-48TS-E		1					4	4 bldg_24200_Floor_1_Room_0149_Rack_0001	FDO1529X1X6	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-08	WS-C4506-E			3				4	4 Bldg_24202_Floor_1_Room_143_Rack_1_	FXS1731Q4AV	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-38	WS-C3560V2-24TS-S	1	L					4	4 Bldg 24203 Floor 0001 Room Telco1 Rack 0001	FDO1645Y12V	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DR-01	WS-C6506-E						1		Bldg 24204 Floor 0001 Room Telco1 Rack 0003-Row-0004	SAL172369MY	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DR-02	WS-C6506-E						1		Bldg 24204 Floor 0001 Room Telco1 Rack 0003-Row-0004	SAL1718474L	NCR QUAN Nodes	NCR	QUAN
DR	110 00000						1		Bldg 26100				
DR							1		Bldg 26100				
QUAN-U07-AS-61	WS-C4506-E			3			-		4 Bldg 26100 Floor 0001 Room Telco1 Rack 0001	SPE173000D1	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-62	WS-C3750X-24T-S	1		3					2 Bldg 26100 Floor 1 Room RWC1 Rack 1	FDO1746Z0JL	NCR QUAN Nodes	NCR	QUAN
	WS-C3750X-24T-S	-				_					i i		QUAN
QUAN-U07-AS-63			-						2 Bldg_26100_Floor_1_Room_RWC2_Rack_1_	FD01745P23K	NCR QUAN Nodes	NCR	
QUAN-U07-AS-71	WS-C3560V2-24TS-S	1	L						Bldg_26101_Floor_0001_Room_0000_Rack_0001	FDO1710Y0N2	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-68	WS-C3750X-24T-S	1	L L						Bldg_26133_Floor_1_Room_Telco1_Rack_1_	FDO1746H070	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-70	WS-C3560V2-24TS-S	1	l l						Bldg_26143_Floor_1_Room_Telco1_Rack_1_	FDO1437X3DV	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-69	WS-C3560V2-24TS-S	1	l l					4	Bldg_26144_Floor_1_Room_Telco1_Rack_1_	FDO1438X05A	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-65	WS-C3750X-24T-S	1	<u> </u>						Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746H0ME	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-66	WS-C3750X-24T-S	1	L .					2	2 Bldg_2649_Floor_1_Room_1_Rack_1	FDO1746P0Y9	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-67	WS-C3750X-24T-S	1						4	4 Bldg_2650_Floor_1_Room_1_Rack_1	FDO1746H0MK	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-19	WS-C3560V2-24TS-S	1						4	Bldg_27001_Floor_0001_Room_0001_Rack_0001_	FDO1437V0W4	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-15	WS-C3560V2-24TS-S	1	1					4	4 Bldg_27007_Floor_0001_Room_0001_Rack_0001_	FDO1438X03L	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-52	WS-C3560G-24TS-S	1	L					4	4 Bldg_27028T_Floor_0001_Room_Telco1_Rack_01_	FOC1623V0TW	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-18	WS-C3560V2-24TS-S	1	ı İ						Bldg_27046_Floor_0001_Room_0001_Rack_0001_	FDO1437V0ZB	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-25	WS-C3560V2-24TS-S	1	ı			1			4 Bldg 27067 Floor 0001 Room 0001 Rack 0001	FDO1438X02T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-29	WS-C3560V2-24TS-S	1	1						4 Bldg 27200 Floor 1 Room Telco1 Rack 1	FDO1437X380	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-22	WS-C3560V2-24TS-S	1							4 Bldg 27210 Floor 0001 Room 604 Rack 0001	FDO1437V0YM	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-21	WS-C4506-E	-		3					4 Bldg 27211 Floor 0001 Room S4 Rack 0001	SPE173000B9	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-24	WS-C3560V2-24TS-S	1		i i					# Bldg 27231 Floor 0001 Room Telco1 Rack 0001	FD01437X015	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-20	WS-C3560V2-48TS-S	<del>-</del>	1						# Bldg 27241 Floor 0001 Rm Telco1 Rack 0001	FD01437X013	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-48TS-E		1			_							QUAN
QUAN-U07-AS-39			1						1 Bldg_27250_Floor_0001_Rm_Telco1_Rack_0001_	FD01529X1XH	NCR QUAN Nodes	NCR	
QUAN-U07-AS-45	WS-C3560V2-24TS-S	1							2 Bldg_27250_Floor_0001_Room_telco1_Rack_0001_	FDO1437V22T	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-46	WS-C3560V2-24TS-S	1	l l						Bldg_27251_Floor_0001_Room_0001_Rack_0001_	FDO1437V0X3	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-23	WS-C3560V2-24TS-S	1	4						4 Bldg_27270_Floor_0001_Room_0001_Rack_0001_	FDO1437V272	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-32	WS-C3560V2-48TS-E		1						4 Bldg_27275_Floor_2_Room_206_Rack_2_	FDO1528X0CG	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-12	WS-C3560V2-48TS-S		1						4 Bldg_27277_Floor_2_Room_206_Rack_2_	FDO1633X1AD	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-40	WS-C3560V2-24TS-S	1	L					4	Bldg_27279_Floor_0001_Room_telco10_Rack_0001_	FDO1438X036	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-17	WS-C4506-E			3					4 Bldg_27281_Floor_0001_Rm_Telco1_Rack_0001_	FXS1732Q3EE	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-14	WS-C6506-E			3				4	4 Bldg_27282_Floor_0001_Room_0001_Rack_0001_	SAL172369MS	NCR QUAN Nodes	NCR	QUAN
DR							1		Bldg_27282				
DR							1		Bldg_27282				
QUAN-U07-AS-27	WS-C3560V2-48TS-E		1					4	4 Bldg_27290TX_Floor_0001_Room_Telco1_Rack_0001_	FDO1436X1P5	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-13	WS-C3560V2-24TS-S	1	L					4	4 Bldg_27400_Floor_0001_Room_0001_Rack_0001_	FDO1437X356	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-56	WS-C4506-E			3				4	4 Bldg_27402_Floor_0001_Room_0001_Rack_0008	FOX1614GXY4	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-57	WS-C4506-E			3				2	2 Bldg 27402 Floor 0001 Room 0001 Rack 0008	SPE154901XJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-55	WS-C3560V2-48TS-S		1					2	2 Bldg_27402_Floor_0001_Room_Telco1_Rack_0001	FDO1633X1AY	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-05	WS-C3850-48U				6				4 BLDG 2741 FLR 02 RM 209 RN2 U30	FCW1951D0BJ,FCW1951C0EY	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U07-AS-54	WS-C3560V2-24TS-S	De-Scope 3	1					De-Scope 4	Bldg_27410_Floor_0001_Room_135_Rack_0001_	FDO1437V12M	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-01	WS-C3850-48U				De-Scope 7			De-Scope 2	BLDG_27410_FLR_01_RM_129_RN2_U12	FOC1951X0S4,FOC1951U0R1,	,.	MCEN	INS
QUAN-U09-AS-06	WS-C3850-48U		De-Scope 1						BLDG_27410_FLR_01_RM_135_R1_U39	FCW1951D10R	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U09-AS-03	WS-C3850-48U				De-Scope 7				BLDG_27410_FLR_01_RM_141_RN3_U26B	FOC1938X1K7,FCW1941C01R		MCEN	INS
QUAN-U09-AS-02	WS-C3850-48U				De-Scope 6				BLDG_27410_FLR_01_RM_141_RN3_0200 BLDG_27410_FLR_01_RM_145_RACK_RN1_U17	FOC1951U0QV,FOC1951U0G4		MCEN	INS
QUAN-U09-AS-02 QUAN-U05-AS-02	WS-C3850-480 WS-C3560V2-24TS-S	-			<del>De stope 0</del>	1	1			FDO1645Y18M	NCR QUAN Nodes	NCR	QUAN
		+	+	<del>                                     </del>	+	+	1		1 Bldg 28000 Floor 1 Room Telco 1 Rack 1		,.		
QUAN-U05-AS-25	WS-C3560V2-24TS-S	1 1	+			+			Bldg_28009_Floor_1_Room_Telco1_Rack_1_	FD01645Y19F	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-30	WS-C3560V2-24TS-S	1 1	1		<del></del>	+			Bldg_3015_Floor_0001_Room_0001_Rack_0001_	FD01645Y19U	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-31	WS-C3560V2-24TS-S	1	4		<del></del>	-	1		Bldg_3015A_Floor_0001_Room_0001_Rack_0001_	FDO1437X00W	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-55	WS-C3560V2-48TS-S		1			1			Bldg_3017_Floor_1_Room_Telco1_Rack_1_	FDO1738Y2P1	NCR QUAN Nodes	NCR	QUAN
QUAN-U04-AS-52	WS-C3560V2-48TS-S		1						4 Bldg_3019_Floor_0001_Room_Telco1_Rack_0001	FDO1633X19S	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-30	WS-C4506-E			3					Bldg_3025_Floor_0001_Rm_Telco1_Rack_0001_	SPE1728024S	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-13	WS-C3560V2-24TS-S	1	4						Bldg_3032_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X3JT	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-24	WS-C3560V2-24TS-S	1	l I					4	4 Bldg_3045_Floor_0001_Room_0001_Rack_0001_	FDO1437X02W	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-22	WS-C3560V2-48TS-S		1					4	4 Bldg_3049_Floor_0001_Room_#0001_Rack_0001_	FDO1709Y1TR	NCR QUAN Nodes	NCR	QUAN
Q07.11 000 7.15 EE	WS-C3560V2-24TS-S	1						4	Bldg_3065_Floor_1_Room_Telco1_Rack_1_	FDO1437V0XT	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11	VV3 C3300 VZ Z413 3	1	L T					4	4 Bldg_3076_Floor_0001_Room_0001_Rack_0001_	FDO1437V231	NCR QUAN Nodes	NCR	QUAN
	WS-C3560V2-24TS-S								4 Bldg_3077_Floor_0001_Room_0001_Rack_0001_	FDO1645Y1AE	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11		1	L I										
QUAN-U02-AS-11 QUAN-U03-AS-44	WS-C3560V2-24TS-S	1		2				2	2 Bldg_3077_Floor_0002_Room_LAN1_Rack_0001_	FXS1733Q0HG	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37	WS-C3560V2-24TS-S WS-C3560V2-24TS-S	1	L	2 3						•	i i		QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E	1	1	2 3				4	4 Bldg_3078_Floor_0001_Room_115_Rack_0001_	FXS1732Q0DL	NCR QUAN Nodes	NCR NCR	QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S	1	1	2 3				4	Bldg 3078_Floor_0001_Room_115_Rack_0001_ Bldg 3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2	NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR	QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1	2 3				4 2 2	Bldg_3078_Floor_0001_Room_115_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2 FDO1431Z0YM	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09 QUAN-U03-AS-18	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1 1	2 3				2 2 2	4 Bldg 3078 Floor 0001 Room 115 Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001 2 Bldg 3078 Floor 0001 Room 210A Rack 0001	FXS1732Q0DL FD01431Z0Z2 FD01431Z0YM FD01431Z0ZJ	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR NCR	QUAN QUAN QUAN QUAN
QUAN-U02-AS-11 QUAN-U03-AS-44 QUAN-U03-AS-36 QUAN-U03-AS-37 QUAN-U03-AS-11 QUAN-U03-AS-08 QUAN-U03-AS-09	WS-C3560V2-24TS-S WS-C3560V2-24TS-S WS-C4503-E WS-C4506-E WS-C3560-48TS-S WS-C3560-48TS-S	1	1 1 1	2 3				2 2 2 2 2	Bldg_3078_Floor_0001_Room_115_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_ Bldg_3078_Floor_0001_Room_210A_Rack_0001_	FXS1732Q0DL FDO1431Z0Z2 FDO1431Z0YM	NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	NCR NCR NCR NCR	QUAN QUAN QUAN

1988   1985													
Description   Commonwealth   Commo	QUAN-U03-AS-35	WS-C3560V2-48TS-S	:	1				4	Bldg_3081T_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X19W	NCR QUAN Nodes	NCR	QUAN
Committed   Comm	QUAN-U03-AS-39	WS-C3560V2-24TS-S	1					4	Bldg_3081T2_Floor_0001_Room_Telco1_Rack_0001_	FDO1643Y2RQ	NCR QUAN Nodes	NCR	QUAN
1982   1982	QUAN-U02-AS-25	WS-C3560V2-48TS-E		1				4	Bldg_3083_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1WT	NCR QUAN Nodes	NCR	QUAN
	QUAN-U02-AS-27	WS-C4503-E		2				4	Bldg 3083A Floor 1 Room 102 Rack 1	FXS1733Q0HE	NCR QUAN Nodes	NCR	QUAN
Section   Company   Comp		WS-C4506-E		3					<del></del>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	NCR	
				3					102-1-12				
Dec   Control	A		1	†	1				<del></del>	· · · · · · · · · · · · · · · · · · ·			
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Depart of the Company   Page			1	<del>                                     </del>					<del></del>				
Dec   1997   1			1										
1	QUAN-U03-AS-20	WS-C4503-E		2				4	Bldg_3094_Floor_0001_Room_Telco1_Rack_0001_	FXS1733Q0J8	NCR QUAN Nodes	NCR	QUAN
48   19   49   49   49   49   49   49   49	QUAN-U03-AS-15	WS-C3560V2-48TS-S		1				4	Bldg_3094T_Floor_1_Room_Telco 1_Rack_1_	FDO1633X1A9	NCR QUAN Nodes	NCR	QUAN
Description   Company	QUAN-U04-AS-45	WS-C3560V2-24TS-S	1					4	Bldg_3095_Floor_0001_Room_Telco1_Rack_0001_	FDO1437V0XF	NCR QUAN Nodes	NCR	QUAN
Description   Proceedings	QUAN-U04-AS-03	WS-C4503-E		2				4	Bldg 3097 Floor 0001 Room Telco1 Rack 0001	SPE171500L6	NCR QUAN Nodes	NCR	QUAN
Description   Proceedings	OUAN-U04-AS-14	WS-C3560G-24TS-S	1					4	Bldg 3098 Floor 0001 Room 105 BreakFix	FOC1623VOUF	NCR OUAN Nodes	NCR	OUAN
Control   Cont				3					<del></del>				
DAMA SAS   10   CARRESTON   1				1 3	1				<del></del>		,.		
Math No. 6, 2   10   10   10   10   10   10   10			1						<del></del>	· · · · · · · · · · · · · · · · · · ·			
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Description   Company			1						<del></del>		· · · · · · · · · · · · · · · · · · ·		
DAY OF ALL   DO GROSSO 419   1			1					2	Bldg_3098_Floor_1_Room_Server		· · · · · · · · · · · · · · · · · · ·		
DAY AD SECTION   CONTROL	QUAN-U04-AS-01	WS-C3560V2-24TS-S	1					4	Bldg_3099_Floor_01_Room_Telco_01_Rack_01_	FDO1437X02G	NCR QUAN Nodes	NCR	QUAN
Date   Ball A	QUAN-U04-AS-11	WS-C3560V2-48TS-S	:	1				4	Bldg_3100_Floor_0001_Room_Telco1_Rack_0001_	FDO1633X1AZ	NCR QUAN Nodes	NCR	QUAN
Section   Control   Cont	QUAN-U04-AS-02	WS-C3560V2-24TS-S	1					4	Bldg_3101_Floor_1_Room_Telco1_Rack_1_	FDO1710Y0PC	NCR QUAN Nodes	NCR	QUAN
CHARLESSON   NC   COMMISSION	QUAN-U03-AS-07	WS-C3560V2-24TS-S	1						<del></del>	FDO1437V0XY	NCR QUAN Nodes	NCR	QUAN
DEMAND COLOR   DEMA			1	1 3	s <b>i</b>								
CALAN DE AL ST.   CALAN DE A			1	<del>                                     </del>	<b>†</b>	<del>                                     </del>			<del></del>				
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CAMA DIA 64 99   WG CASON E   9   9   1   1   1   1   1   1   1   1	QUAN-U02-AS-35	WS-C3560V2-24TS-S	1					4	Bldg_3232_Floor_1_Room_Telco_1_Rack_0001_	FDO1645Y14W	NCR QUAN Nodes	NCR	QUAN
Part   Part	QUAN-U02-AS-17	WS-C3560V2-24TS-S	1					4	Bldg_3240_Floor_0001_Room_Telco1_Rack_0001_	FDO1437X38R	NCR QUAN Nodes	NCR	QUAN
MANUSHINESS   M. CREEKE   2	QUAN-U04-AS-39	WS-C4506-E		3	3			4	Bldg_3250_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024R	NCR QUAN Nodes	NCR	QUAN
MANUSHINESS   M. CREEKE   2	QUAN-U04-AS-38	WS-C4506-E		3	si			2	Bldg 3250 Floor Basement Room CommCtr Rack 0001	FXS1732Q416	NCR QUAN Nodes	NCR	QUAN
DAM-199-5-5-22   NF-CES-0-5-1				2									
DAM-HIGH-SP-21   DAM-HIGH-SP-22   DAM-				<del>                                     </del>						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
COLUMN 1995-ACC   COLUMN 199			1		1				<del></del>				
2   Big 1925   Free 7000   Rem   CREAT ROCK   CREAT ROC			1	<del>                                     </del>									
Company   Comp				3	5			Δ.	BIDD 3255 FIOOR OOOT ROOM OOOT RACK OOOT	ISPE1730008W	NCR QUAN Nodes	NCR	QUAN
March 1996   Mar						1			0				
CAMA USA 6-01   VS - CARGO F   VS			1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_	FOC1426W0P4			INS
DAM-1998-S01   SP-6505FE   3   1   1   1   1   1   1   1   1   1			1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53	MCEN INS QUAN Nodes		
CAMPANIPO-S-GSE   S-CESSOR-E   3   2   108_23255   100_0021, Room, ServerFarm, Risk , 0041   54,123,00478   MCRN NO GLAN No-Roe   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO-ROE   MCRN NO GLAN NO GL	QUAN-U99-DS-01	WS-C6506-E WS-C6506-E	1					2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53	MCEN INS QUAN Nodes	MCEN MCEN	INS INS
COM-M-1994-SOR   WS-CESSOR	QUAN-U99-DS-01 QUAN-U99-DS-02	WS-C6506-E WS-C6506-E	1	3				2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE	MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN	
CQUANTIPS AGE	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01	WS-C6506-E WS-C4506-E WS-C4506-E	1	3 3 3	<b>3</b>			2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR	INS INS QUAN
COUNT-1099-AS-07   VS-C5500-E   S   S   S   S   S   S   S   S   S	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01	WS-C6506-E WS-C4506-E WS-C4506-E	1	3 3 3				2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN	INS INS QUAN INS
2   Bigg 2355   Bior   2003   Section   Sect	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E	1	3 3 3 3 3				2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN	INS UNS QUAN INS INS
CAMANUPA-65-06   WS-65696-6   S   S   S   S   S   S   S   S   S	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E	1	3 3 3 3 3	5 5 5			2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN MCEN	INS QUAN INS INS INS
DUAN-UPI-AS-09   WS-C4509E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E	1	3 3 3 3	5			2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS
QUAN-UPS-AS-06   WS-C6506-F	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E	1	3 3 3 3	5			2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS
QUAN-U99-AS-22   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U03-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E	1	3 3 3 3	5 5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005 Bldg_3255_Floor_0001_Room_0129_Rack_0005 Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0010_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7F SAL172264PL	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS
QUAN-199-8-623   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 106 Reft, 155   SAL1639MFS   MCEN INS QUAN Nodes   MCEN   INS QUAN-199-8-640   W5-C6506-E   3   1   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-199-8-640   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-104-610   W5-C6506-E   3   1   2   36g, 3255 Floor 1, Rom 179 Reft, 12   SAL1633MFT   MCEN INS QUAN Nodes   MCEN   INS QUAN-104-610   W5-C6506-E   3   3   1   2   36g, 3255 Floor 1, Rom 5erverFarm Red, Row5   SAL1633MFT   MCEQ INN Nodes   MCEN   NS QUAN-104-610   W5-C6506-E   W	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E	1	3 3 3 3 3 3 3 3	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0104_ Bldg_3255_Floor_0001_Room_SF_Rack_0100_ Bldg_3255_Floor_0002_Room_Telco1_Rack_0001_	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF75 SAL172264PL FXS1732Q3W3	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS UNS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-199-A5-03   WS-C5506-E     3     2   882,3255, Floor 1, Room 179, Rack 1,2   SAL1633RRTF   MCRN NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN Nodes   MCRN   NS QUAN NODEs   MCRN   NS QUAN NODEs   MCRN   NS QUAN NODEs   MCRN   M	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U94-AS-05 QUAN-U04-AS-06	WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C6506-E WS-C4506-E	1	3 3 3 3 3 3 3 2 2				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRm Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS UVAN INS INS INS INS INS INS INS INS INS IN
QUAN-109-AS-04   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E		3 3 3 3 3 3 3 2				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0040  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0001 Room ServerRack 0001  Bldg 3255 Floor 0001 Room ServerRack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 01 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-109-AS-04   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E		3 3 3 3 3 3 3 2 2	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-UGA-BR-02   WS-C6506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4508-E		3 3 3 3 3 3 2 2	5 5 5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 001 Room ServerRack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1630HP58	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-LUG-AR-02   WS-C5506-E	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-03	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E		33 33 33 33 33 33 33 33 33 33 33 33 33	5			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0100  Bldg 3255 Floor 0001 Room ServerFarm Rack 0100  Bldg 3255 Floor 0001 Room ServerRack 0010  Bldg 3255 Floor 1000 Room ServerRack 0001  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1630HP58 SAL1633KRTK	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U95-A5-07   WS-C4506-E   De-Scope 3   Secope 4   Secope 5   Secope 6	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-03 QUAN-U99-AS-03	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4503-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 00041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0100 Bldg 3255 Floor 0001 Room ServerRack 0001 Bldg 3255 Floor 1000 Room ServerRack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12	FOC1426W0P4  SAL1630HP53  SAL1633KRTE  FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
DUAN-UDS-AS-18   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telcol Rack 00001   SPE1730000FC   NCR QUAN Nodes   NCR   QUAN-UDS-AS-506   MS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telcol Rack 0001   SPE173000FC   NCR QUAN Nodes   NCR   QUAN-UDS-AS-506   MS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13384AE1   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-507   MS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-508   NS-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope 2   Bidg 3280 Floor 0003 Rm 3FR Rack 0001   FOX13386ZVI   NCR QUAN Nodes   NCR   QUAN-UDS-AS-514   NS-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4503-E WS-C4503-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0101  Bldg 3255 Floor 0001 Room ServerRa Rack 0101  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12	FOC1426W0P4  SAL1630HP53  SAL1633KRTE  FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7F  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-19   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0001 Room Telco1 Rack 0001   SPE173000EC   NCR QUAN Nodes   NCR   QUAN U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0002 Rm 26st Rack 0001   FON1338HAE]   NCR QUAN Nodes   NCR   QUAN U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 36vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-07   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 36vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-01   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 55 Flack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 56vet Rack 0001   FON1338GZI   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 56vet Rack 0001   FON1338GWZ   NCR QUAN Nodes   NCR   QUAN U05-A5-06   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-09   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm 56vet Rack 0001   FON1338G3UX   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN U05-A5-10   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 131 Rack 0001	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U04-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U90-DR-01	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4503-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRarm Rack 01001  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 1 Room 166 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-UOS-AS-06   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0002 Rm 2East Rack 0001   FOX13386HAE]   NCR QUAN Nodes   NCR QUAN Nodes   QUAN-UOS-AS-07   WS-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0003 Rm 3F Rack 0001   FOX1338GVXD   NCR QUAN Nodes   NCR QUAN NODES   NCR QUAN Nodes   NCR QUAN NODES   NCR QUAN Nodes   NCR QUAN NODES   NCR QUAN Nodes   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN Nodes   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR QUAN NODES   NCR	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4503-E  WS-C6506-E		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg_3255_Floor_0001_Room_0001_Rack_0003_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_0129_Rack_0005_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_Row-0003_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0010_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bldg_3255_Floor_0001_Room_ServerRack_0001_ Bldg_3255_Floor_0001_Room_ServerRack_0001_ Bldg_3255_Floor_1_Room_106_Rack_155_ Bldg_3255_Floor_1_Room_106_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_179_Rack_12_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bldg_3255_FlR_01_RM_102_RN3_U18	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-03   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0003 Rm 3West Rack 0001   FOX1338GWXD   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-01   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Rm 5F Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-10   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Rom 5F Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm 4West Rack 0001   FOX1338GZY8   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm 4West Rack 0001   FOX1338GXY8   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GXXZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GXXZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 4 Rm 45st Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 4 Rm 45st Rack 0001   FOX1338G3UZ   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm 131 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN U04N-U05-A5-15   NCR QUA	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C4506-E  WS-C6506-E			5		1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010-  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SMG1143NF7H SMG1143NF75 SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-07   W5-C4506-E   De-Scope 2   Bidg 3280 Floor 0003 Rm SF Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-10   W5-C4503-E   De-Scope 2   Bidg 3280 Floor 0003 Room SF Rack 0001   FOX1338GZZJ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-04   W5-C4506-E   De-Scope 3   De-Scope 3   Bidg 3280 Floor 0003 Rm SF Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-05   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 0005 Rm SF West Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-05   W5-C4506-E   De-Scope 2   Bidg 3280 Floor 0005 Rm SF West Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-06   W5-C4503-E   De-Scope 2   Bidg 3280 Floor 1West Room Telcol Rack 0002   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-09   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm AEast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm AEast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 2   Bidg 3280 Floor 1 Rm SFast Rack 0001   FOX1338GBZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-A5-12   W5-C4506-E   De-Scope 3   De-Scope 4   Bidg 3300 Floor 0001 Rm 119 Rack 0001   SPE1728024Q   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-01   W5-C4506-E   DE-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Rm 119 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-01   W5-C4506-E   DE-Scope 3   De-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C7   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-12   W5-C4506-E   DE-Scope 3   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C1   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-15   W5-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 0001 Room 119 Rack 0001   SPE173000C1   NCR QUAN Nodes   NCR   QUAN QUAN-U05-BR-15   W5-C4506-E   DE-Scope 3   DE-Scope 2   Bidg 3300 Floor 2 Rm 2428 Rack 0001   SPE1730000C1   NCR QUAN Nodes   NCR   QUAN QUAN-	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E		De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL163XRTB SAL	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-10   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0003 Room 5F Rack 0001   FXS1735Q2EY   NCR QUAN Nodes   NCR   QUAN U05-A5-04   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0004 Rm_dwest Rack 0001   FOX1338G2W3   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm_Swest Rack 0001   FOX1338G2W3   NCR QUAN Nodes   NCR   QUAN U05-A5-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 1West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN U05-A5-06   NCR   QUAN V05-A5-06   NCR   QUAN V05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN U05-A5-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN U05-A5-12   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 001 Rm_119 Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN U05-A5-12   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3280 Floor 001 Rm_119 Rack 0001   SPE1728024Q   NCR QUAN Nodes   NCR   QUAN U05-A5-13   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730005T   NCR QUAN Nodes   NCR   QUAN U05-NCB   De-Scope 5   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 3   DE-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 2   Bldg 3300 Floor 001 Rm_119 Rack 0001   SPE1730007T   NCR QUAN Nodes   NCR   QUAN U05-NCB   DE-Scope 2   Bldg 3300 Floor 2 Rm 208 Rack 0001   SPE1730009U   NCR QUAN Nodes   NCR   QUAN U05-NCB   QUAN U05-NCB   DE	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRam Rack 0001  Bldg 3255 Floor 1 Room 160 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room 102 RN3 U18  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-10   WS-C4508-E   De-Scope 2   Bldg 3280 Floor 0003 Rom SF Rack 0001   FXS173502FY   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-04   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 0005 Rm SWest Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm SWest Rack 0001   FOX1338GWZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-01   WS-C4508-E   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-08   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0002   FXS1733Q05Z   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-09   WS-C4506-E   De-Scope 3   De-Scope 3   De-Scope 2   Bldg 3280 Floor 1 West Room Telcol Rack 0001   FOX1338G3LZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-09   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 0001 Rm 119 Rack 0001   FXS1336G3LZ   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-12   WS-C4506-E   De-Scope 3   De-Scope 4   Bldg 3300 Floor 0001 Rm 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-13   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Rm 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-13   WS-C4506-E   DE-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE1730007   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-14   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001   SPE17300071   NCR QUAN Nodes   NCR   QUAN QUAN-U05-AS-15   WS-C4506-E   De-Scope 3   De-Scope 2   Bldg 3300 Floor 0001 Room 119 Rack 0001	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRam Rack 0001  Bldg 3255 Floor 1 Room 160 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room 102 RN3 U18  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-A5-04         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 0004 Rm 4West Rack 0001         FOX1338G2Y8         NCR QUAN Nodes         NCR         QUAN QUAN-U05-A5-05         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 0005 Rm 5West Rack 0001         FOX1338GWXZ         NCR QUAN Nodes         NCR         QUAN QUAN-U05-A5-01         WS-C4506-E         De-Scope 2         Bldg 3280 Floor 1West Room 1Febra Rack 0001         FOX1338GWXZ         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E		De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0100  Bldg 3255 Floor 0001 Room ServerRam Rack 0000  Bldg 3255 Floor 0001 Room ServerRam Rack 163  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3250 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0002 Rm 2East Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-05   WS-C4506-E   De-Scope 2   Bldg 3280 Floor 0005 Rm 5West Rack 0001   FOX1338GWXZ   NCR QUAN Nodes   NCR   QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-05 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg_3255_Floor_0001_Room_0001_Rack_0003_ Bidg_3255_Floor_0001_Room_0129_Rack_0005 Bidg_3255_Floor_0001_Room_0129_Rack_0005 Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_Bidg_3255_Floor_0001_Room_ServerFarm_Rack_00041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0041_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerFarm_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_0104_ Bidg_3255_Floor_0001_Room_ServerRam_Rack_163_ Bidg_3255_Floor_1_Room_106_Rack_155_ Bidg_3255_Floor_1_Room_106_Rack_155_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_179_Rack_12_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_1_Room_ServerFarm_Rack_4Row5_ Bidg_3255_Floor_0001_Room_telco1_Rack_0001_ Bidg_3280_Floor_0001_Room_telco1_Rack_0001_ Bidg_3280_Floor_0002_Rm_ZEast_Rack_0001_ Bidg_3280_Floor_0003_Rm_3West_Rack_0001_ Bidg_3280_Floor_0003_Rm_3West_Rack_0001_ Bidg_3280_Floor_0003_Rm_SF_Rack_0001_ Bidg_3280_Floor_0003_R	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP5A  SPE173000E  FOX1338HAEI  FOX1338HAEI  FOX1338GZZJ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN INS QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-01         WS-C4503-E         De-Scope 2         Bidg 3280 Floor 1West Room Telco1 Rack 0002         FXS1733Q0SZ         NCR QUAN Nodes         NCR         QUAN QUAN-U05-AS-08           QUAN-U05-AS-08         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 4 Rm 4East Rack 0001         FOX1338G3LZ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-09           QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 0001 Rm 13P Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bidg 3300 Floor 0001 Rm 13P Rack 0001         SPE173002CQ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-14         NS-C4506-E         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NCR QUAN Nodes         NCR </td <td>QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-07</td> <td>WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E</td> <td></td> <td>De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 2</td> <td></td> <td></td> <td>1 1</td> <td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 00041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0101  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0002 Rm ZEast Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001</td> <td>FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SMG1143NF7H  SMG1143NF75  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY</td> <td>MCEN INS QUAN Nodes MCEN UAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes</td> <td>MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN</td> <td>INS INS QUAN INS INS INS INS INS INS INS INS INS IN</td>	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-19 QUAN-U99-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 2			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 00041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0101  Bldg 3255 Floor 0002 Room Telco1 Rack 0001  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 106 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0001 Room telco1 Rack 0001  Bldg 3280 Floor 0002 Rm ZEast Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SMG1143NF7H  SMG1143NF75  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY	MCEN INS QUAN Nodes MCEN UAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-08         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 4 Rm 4East Rack 0001         FOX1338G3LZ         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-09           QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3280 Floor 5 Rm 5East Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-14         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NS-C4506-E         NCR QUAN Nodes         NCR         QUAN U05-AS-15         NCR QUAN Nodes	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C6506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E  WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room 0129 Rack 0005  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bldg 3255 Floor 0001 Room ServerFarm Rack 0010  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0041  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerFarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0104  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 0001 Room ServerRarm Rack 0001  Bldg 3255 Floor 1 Room 166 Rack 155  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 12  Bldg 3255 Floor 1 Room 179 Rack 14  Bldg 3255 Floor 1 Room 179 Rack 14  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bldg 3255 Floor 1 Room ServerFarm Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0001 Room Telco1 Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Rm 3West Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001  Bldg 3280 Floor 0003 Room SF Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTG  SAL1633KRTJ  SAL1633KRTJ  SAL1633KRTJ  SAL1633KRTJ  SAL1633HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9  SPE173000D9  SPE173000DC  FOX1338HAEJ FOX1338GZZJ FXS1735Q2EY FOX1338GZZB	MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-09         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3280 Floor 5 Rm 5East Rack 0001         FOX1338G3KA         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bidg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-01           QUAN-U05-DR-01         WS-C6506-E         De-Scope 3         1         Bidg 3300 Floor 0001 Room 119 Rack 0001         SAL171265U5         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-02           QUAN-U05-AS-14         WS-C6506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 208 Rack 0001         SAL17265UP         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-12           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-15         NS-C4506-E         De-Scope 3         De-Scope 2         Bidg 3300 Floor 2 Rm 216 Rack	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-01 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U95-AS-19 QUAN-U95-AS-06 QUAN-U95-AS-07 QUAN-U95-AS-07	WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6506-E  WS-C6509-E  WS-C6509-E  WS-C6506-E  WS-C4506-E  WS-C6506-E  WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTI SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ SAL1633KRTJ FOX133KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000EC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZY8 FOX1338GYXZ	MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-12         WS-C4506-E         De-Scope 3         De-Scope 4         Bldg 3300 Floor 0001 Rm 119 Rack 0001         SPE1728024Q         NCR QUAN Nodes         NCR         QUAN QUAN U05-AS-13           QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-01           QUAN-U05-DR-01         WS-C6506-E         De-Scope 3         1         Bldg 3300 Floor 0001 Room 119 Rack 0001         SAL171635U5         NCR QUAN Nodes         NCR         QUAN QUAN U05-DR-02           QUAN-U05-DR-02         WS-C6506-E         DE-Scope 3         1         Bldg 3300 Floor 0001 Room 119 Rack 0001         SAL172264NP         NCR QUAN Nodes         NCR         QUAN UAN U05-AS-14         WS-C4506-E         SAL172264NP         NCR QUAN Nodes         NCR         QUAN UAN U05-AS-15         WS-C4506-E         SPE173000F1         NCR QUAN Nodes         NCR         QUAN U05-AS-15         WS-C4506-E         SPE173000F1         NCR QUAN Nodes         NCR         QUAN U05-AS-15         WS-C4506-E         SPE1730009U         NCR QUAN Nodes         NCR         QUAN U05-AS-12         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN U05-AS-12         De-Scope 2         Bldg 3300 Floor 2 Rm 242B	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-06 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room telco1 Rack 0001 Bldg 3280 Floor 0001 Room Telco1 Rack 0001 Bldg 3280 Floor 0002 Rm ZEast Rack 0001 Bldg 3280 Floor 0003 Rm SER Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338GTB FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GWXZ FXS1733Q0SZ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-13         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 0001 Rm 131 Rack 0001         SPE173000C7         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN QUAN Nodes	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-09 QUAN-U99-AS-09 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01 QUAN-U95-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 00104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0001 Bldg 3255 Floor 0001 Room ServerRm Rack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room Elecol Rack 0001 Bldg 3280 Floor 0001 Room Telcol Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0004 Rm 4West Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001 Bldg 3280 Floor 1005 Rm 5West Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338HAEI FOX1338GWXD FOX1338GZZI FXS1735Q2EY FOX1338GWXZ FXS1733QOSZ FOX1338G3LZ	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN INS QUAN NODES MCEN QUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-DR-01         WS-C6506-E         SAL171635U5         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN QUAN QUAN QUAN QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bldg 3255 Floor 0001 Room 0001 Rack 0003 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room 0129 Rack 0005 Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0010 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0041 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0104 Bldg 3255 Floor 0001 Room ServerFarm Rack 0000 Bldg 3255 Floor 0001 Room ServerRam Rack 0001 Bldg 3255 Floor 0001 Room ServerRam Rack 163 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 106 Rack 155 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room 179 Rack 12 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bldg 3250 Floor 0001 Room telco1 Rack 0001 Bldg 3280 Floor 0001 Room Telco1 Rack 0001 Bldg 3280 Floor 0002 Rm 2East Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm 3West Rack 0001 Bldg 3280 Floor 0003 Rm SF Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001 Bldg 3280 Floor 0005 Rm SWest Rack 0001 Bldg 3280 Floor 0005 Rm 5West Rack 0001 Bldg 3280 Floor 5 Rm 5East Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB FOX1338GTP SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX1338CTB FOX1338GVZD FOX1338GZZD FXS1735Q2EY FOX1338GYZB FOX1338GWZZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA	MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes NCR QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-DR-02         W5-C6506-E         SAL172264NP         NCR QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN QUAN QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-05 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-01 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-01 QUAN-U95-AS-08 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09 QUAN-U95-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3250 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room SF Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL  FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1630HP5A  SPE173000D9  SPE173000D9  SPE173000EC FOX1338HAEI FOX1338GZZI FXS1735Q2EY FOX1338GZZI FXS1733Q0SZ FOX1338G3IZ FOX1338G3IZ FOX1338G3IZ FOX1338G3IZ FOX1338G3IZ FOX1338G3IZ FOX1338G3KA SPE1728024Q	MCEN INS QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes MCE QUAN Nodes NCE QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-14         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 216 Rack 0001         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U04-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 00041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0001 Room ServerRam Rack 0104 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3250 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room SF Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0005 Rm SWest Rack 0001 Bidg 3280 Floor 0006 Rm SWest Rack 0001 Bidg 3280 Floor 0007 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001 Bidg 3280 Floor 0008 Rm SWest Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000D9 SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GY8 FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7	MCEN INS QUAN Nodes MCEQUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-14         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 208 Rack 0001         SPE173000F1         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 216 Rack 0001         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg 3300 Floor 2 Rm 242B Rack 0001         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U04-AS-06 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 00041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRarm Rack 163  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3255 Floor 1 Room ServerFarm Rack 0001  Bidg 3280 Floor 0001 Room telco1 Rack 0001  Bidg 3280 Floor 0001 Room telco1 Rack 0001  Bidg 3280 Floor 0002 Rm ZEast Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm SF Rack 0001  Bidg 3280 Floor 0003 Rm SF Rack 0001  Bidg 3280 Floor 0004 Rm 4West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 5 Rm 5East Rack 0001  Bidg 3280 Floor 5 Rm 5East Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX1332G2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTI  SAL1630HP5A  SPE173000D9  SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GVZEY FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7	MCEN INS QUAN Nodes MCEQUAN NODES	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-15         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_216_Rack_0001_         FXS1732Q3ZJ         NCR QUAN Nodes         NCR         QUAN QUAN NODES           QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_242B_Rack_0001_         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-09 QUAN-U05-AS-10 QUAN-U05-AS-09 QUAN-U05-AS-11 QUAN-U05-AS-09 QUAN-U05-AS-11	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room 0129 Rack 0005  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003  Bidg 3255 Floor 0001 Room ServerFarm Rack 0010  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0041  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerFarm Rack 0104  Bidg 3255 Floor 0001 Room ServerRam Rack 0104  Bidg 3255 Floor 0001 Room ServerRam Rack 0104  Bidg 3255 Floor 0002 Room Telco1 Rack 0001  Bidg 3255 Floor 0002 Room ServerRam Rack 163  Bidg 3255 Floor 1 Room 106 Rack 155  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 12  Bidg 3255 Floor 1 Room 179 Rack 21  Bidg 3255 Floor 1 Room 179 Rack 4Row5  BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5  BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5  Bidg 3250 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0001 Room Telco1 Rack 0001  Bidg 3280 Floor 0002 Rm 2East Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm 3West Rack 0001  Bidg 3280 Floor 0003 Rm 5F Rack 0001  Bidg 3280 Floor 0004 Rm 4West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 0005 Rm 5West Rack 0001  Bidg 3280 Floor 0006 Rm 5East Rack 0001  Bidg 3280 Floor 0007 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001  Bidg 3300 Floor 0001 Rm 119 Rack 0001	FOC1426W0P4  SAL1630HP53  SAL1633KRTE FOX133ZG2VD  SAL17173LBA  SAL1633KRT4  SAL1633KRT4  SAL1630HP5A  SMG1143NF7H  SMG1143NF7S  SAL172264PL FXS1732Q3W3  SPE151601B7  SAL1633KRTK  SAL1633KRTK  SAL1633KRTF  SAL1633KRTF  SAL1633KRTF  SAL1633KRTG  SAL1633KRTJ  SAL1630HP4Q FCW1951C0E6,FCW1951D0LB  SPE173000D9 SPE173000D9 SPE173000EC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZZJ FXS1733Q0SZ FOX1338G3LZ SPE173000C7 SAL171635U5	MCEN INS QUAN Nodes NCE QUAN Nodes MCEN QUAN Nodes	MCEN MCEN NCR MCEN MCEN MCEN MCEN MCEN MCEN MCEN MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-22         WS-C4506-E         De-Scope 3         De-Scope 2         Bldg_3300_Floor_2_Rm_242B_Rack_0001_         SPE1730009U         NCR QUAN Nodes         NCR         QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-03 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-18 QUAN-U05-AS-10 QUAN-U05-AS-06 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C4506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRar Rack 0001 Bidg 3255 Floor 0001 Room ServerRar Rack 0001 Bidg 3255 Floor 1 Room 166 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3250 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room 179 Rack 10 Bidg 3250 Floor 1 Room ServerFarm Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm ServerFarm Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0003 Rm Server Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0001 Rm 119 Rack 0001 Bidg 3300 Floor 0001 Rm 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DP SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GWXD FOX1338GY8 FOX1338GWXZ FXS1733Q0SZ FOX1338G3LZ FOX1338G3KA SPE1728024Q SPE173000C7 SAL171635U5 SAL1712264NP	MCEN INS QUAN Nodes MCEN QUAN Nodes MCEN QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-06 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-07 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-11 QUAN-U05-AS-12 QUAN-U05-AS-13 QUAN-U05-AS-14	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3			1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerRa Rack 0001 Bidg 3255 Floor 1 Room 16 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room 179 Rack 10 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 4Row5 BIDG 3255 Floor 1 Room ServerFarm Rack 0001 Bidg 3280 Floor 0001 Room telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0007 Rm 5East Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0002 Bidg 3280 Floor 0001 Rm 131 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX133ZG2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTG SAL1633KRTJ SAL1633KRTJ SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DP SPE173000EC FOX1338HAEJ FOX1338GWZD FOX1338GZZJ FXS1735Q2EY FOX1338GZZI FXS1735Q2EY FOX1338G3KA SPE1728024Q SPE173000C7 SAL171635U5 SAL172264NP SPE173000F1	MCEN INS QUAN Nodes NCR QUAN Nodes NCR QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN
QUAN-U05-AS-17 WS-C4506-E De-Scope 3 De-Scope 2 Bldg 3300 Floor 3 Rm 312 Rack 0001 FXS1732Q3DT NCR QUAN Nodes NCR QUAN	QUAN-U99-DS-01 QUAN-U99-DS-02 QUAN-U99-AS-01 QUAN-U99-AS-01 QUAN-U99-AS-05 QUAN-U99-AS-06 QUAN-U99-AS-07 QUAN-U99-AS-08 QUAN-U99-AS-02 QUAN-U99-AS-02 QUAN-U99-AS-22 QUAN-U99-AS-22 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-23 QUAN-U99-AS-24 QUAN-U99-AS-03 QUAN-U99-AS-04 QUAN-U99-AS-04 QUAN-U99-AS-07 QUAN-U99-AS-07 QUAN-U05-AS-18 QUAN-U05-AS-19 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-01 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-10 QUAN-U05-AS-11 QUAN-U05-AS-12 QUAN-U05-AS-13 QUAN-U05-AS-13 QUAN-U05-AS-14 QUAN-U05-AS-15	WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6506-E WS-C6509-E WS-C6509-E WS-C6509-E WS-C6506-E WS-C4506-E WS-C6506-E WS-C4506-E		De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3 De-Scope 3				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bidg 3255 Floor 0001 Room 0001 Rack 0003 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room 0129 Rack 0005 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003 Bidg 3255 Floor 0001 Room ServerFarm Rack 0010 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0041 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0104 Bidg 3255 Floor 0001 Room ServerFarm Rack 0001 Bidg 3255 Floor 0002 Room Telco1 Rack 0001 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 106 Rack 155 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room 179 Rack 12 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4Row5 Bidg 3255 Floor 1 Room ServerFarm Rack 4001 Bidg 3250 Floor 001 Room ServerFarm Rack 4001 Bidg 3280 Floor 0001 Room telco1 Rack 0001 Bidg 3280 Floor 0001 Room Telco1 Rack 0001 Bidg 3280 Floor 0003 Rm 2East Rack 0001 Bidg 3280 Floor 0003 Rm 3West Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0003 Rm SF Rack 0001 Bidg 3280 Floor 0004 Rm 4West Rack 0001 Bidg 3280 Floor 0005 Rm 5West Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0007 Rm 19 Rack 0001 Bidg 3280 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001 Bidg 3300 Floor 0001 Room 119 Rack 0001	FOC1426W0P4 SAL1630HP53 SAL1633KRTE FOX1332G2VD SAL17173LBA SAL1633KRT4 SAL1633KRT4 SAL1630HP5A SMG1143NF7H SMG1143NF7S SAL172264PL FXS1732Q3W3 SPE151601B7 SAL1633KRTK SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTF SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB SAL1633KRTB FOX133KRTB SAL1630HP4Q FCW1951C0E6,FCW1951D0LB SPE173000DC FOX1338HAEJ FOX1338GWXD FOX1338GZZJ FXS1735Q2EY FOX1338GZZI FXS1735Q2EY FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1336G3LZ FOX1338G3LZ FOX1336G3LZ FOX1338G3LZ FOX133G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ FOX1338G3LZ	MCEN INS QUAN Nodes NCR QUAN Nodes MCEN QUAN Nodes MCEN INS QUAN Nodes MCEN INS QUAN Nodes MCEN QUAN Nodes NCR QUAN Nodes	MCEN   MCEN	INS INS QUAN INS INS INS INS INS INS INS INS INS IN

QUAN-U05-AS-16	WS-C4506-E			De-Scope 3				De-Scope 2	Bldg 3300 Floor 3 Rm 322 Rack 0001	SPE173000BY	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-90	WS-C3560V2-24TS-S	1	1	Сосорс			<del>                                     </del>		Bldg_3313_Floor_01_Room_Teco#_Rack_1_	FDO1437V27K	NCR QUAN Nodes	NCR	QUAN
QUAN-U05-AS-28	WS-C3560V2-24TS-S	1	1	1			-		Bldg 3400 Floor 0001 Room Telco1 Rack 0001	FD01437V27K	NCR QUAN Nodes	NCR	QUAN
		1											
QUAN-U05-AS-29	WS-C3560V2-24TS-S	1							Bldg_3500_Floor_0001_Room_Telco1_Rack_0001_	FDO1438X03R	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-14	WS-C4506-E			3				4	Bldg_5001_Floor_0001_Room_Telco1_Rack_0001_	FXS1732Q3D9	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-13	WS-C4506-E			3				4	Bldg_5002_Floor_0001_Room_Telco1_Rack_0001_	SPE1728024U	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-16	WS-C3560V2-24TS-S	1						4	Bldg_505_Floor_0001_Room_0002_Rack_0001_	FDO1437V11T	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-54	WS-C4503-E		2					4	Bldg_5170_Floor_1_Rm_Telco1_Rack_0001_	FXS1735Q2DD	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-AS-52	WS-C3560V2-24TS-S	1						4	Bldg 5172 Floor 0001 Room 0001 Rack 0001	FDO1643Y2R8	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-27	WS-C3560V2-24TS-S	1							bldg 658 Floor 1 Room 0001 Rack 0001	FDO1437X02B	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-28	WS-C3560V2-24TS-S	1							bldg 660 Floor 1 Room 0001 Rack 0001	FDO1437V26X	NCR QUAN Nodes	NCR	QUAN
QUAN-U02-AS-19	WS-C3560V2-24TS-S	1							Bldg 69 Floor 0001 Room Telco1 Rack 0001	FD01437V13V		NCR	QUAN
		1							0		NCR QUAN Nodes		
QUAN-U08-AS-28	WS-C3560V2-24TS-S	1							Bldg_7_Floor_0001_Room_0001_Rack_0001_	FDO1437X35U	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-30	WS-C3560V2-48TS-E	1	1					4	Bldg_711A_Floor_0001_Room_Telco1_Rack_0001_	FDO1529X1X6	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-23	WS-C3560V2-24TS-S	1						4	Bldg_711C_Floor_Telco1_Room_0001_Rack_0001_	FDO1645Y198	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-22	WS-C3560V2-24TS-S	1						2	Bldg_711C_Floor_Telco1_Room_COMM_Rack_0001_	FDO1645Y1A8	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-12	WS-C3560V2-48TS-S	1	1					4	Bldg 715 Floor 0001 Room Telco1 Rack 0001	FDO1633X1B1	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-AS-16	WS-C3560V2-24TS-S	1							Bldg B5-9 Floor 0001 Room 0001 Rack 0001	FDO1437X38P	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-GSAS-01	WS-C3850-48U			3					BLDG GREENSPRINGS FLR 01 RM 10 RN1 U9		951U0G3 MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-AS-05	WS-C3560V2-24TS-S	1							Bldg QTRS C Floor Basement Room Telco1 Rack 1	FDO1645Y190	NCR QUAN Nodes	NCR	QUAN
		1											
QUAN-U08-AS-55	WS-C3560V2-24TS-S	1	1	<del> </del>				4	Bldg_QTRS1_Floor_BASEMENT_Room_0000_Rack_0001_	FDO1437X035	NCR QUAN Nodes	NCR	QUAN
DR			1					1	Russel Knox				
DR			1					1	Russel Knox				
			<u> </u>	<u> </u>	<u></u>	<u></u>							
	Total	121 52	2 50	237	10	6	0 0	18 950					
** Row #374 location	needs to be identified prior to	placing in-scope for thi	is effort. For now	we'll identify as a	"maybe" / Orange	e until post VSS						1	
	The second secon			l s ii identity us u	a,se , orange		<del> </del>						-
OLIAN 100 AC 01	WC 62750C 24TC 5111									FOC00F1V3VV	MCEN INS Legacy Nodes	NACEN	INC
QUAN-L00-AS-01	WS-C3750G-24TS-E1U									FOC0951Y3XY	5 /	MCEN	INS
	WS-C3750G-24TS-E1U									FOC1224Z19C	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-CB-01	WS-C3750G-48TS-E									FHG1413R0AZ	MCEN INS Legacy Nodes	MCEN	INS
QUAN-U09-GSAS-02	WS-C3850-48U									FOC1951U1LV	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-AS-02	ex4200-48t									BP0210344659	MCEN INS Legacy Nodes	MCEN	INS
QUAN-L00-AS-03	ex8208									CA1710100238	MCEN INS Legacy Nodes	MCEN	INS
QUAN-U99-AS-11a										FOC2120R35P	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-AS-11b	Nexus 3132QV									FOC2120R1DZ	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-DR-01	Nexus9000 C9332PQ									FDO21291CS0	MCEN INS QUAN Nodes	MCEN	
•													INS
QUAN-U99-DR-02	Nexus9000 C9332PQ									FDO21291CQK	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-OS-01	WS-C3750G-48TS-E									FHG1413R0B1	MCEN INS Legacy Nodes	MCEN	INS
QUAN-UDZ-IS-01	WS-C3850-48XS									FOC2035Z1HT	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UDZ-OS-01	WS-C3850-48XS									FOC2035Z1HX	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-04	WS-C4500X-32									JAE203400MW	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-DH-01	3745								Bldg_1999_Floor_0001_Rm_0001_Rack_0001_	FTX1012A398	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DH-02	3745								Bldg 1999 Floor 0001 Room MDF Rack 0001	FTX1110A2C0	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-CO-01	CISCO2921/K9		<del>                                     </del>						Bldg_2008_Floor_0002_Rm_ServerRoom_Rack_001	FTX1748AJ5X	NCR QUAN Nodes	NCR	QUAN
	CISCOZSZI/KS											NCN	
QUAN-U08-DP-03	888								Bldg_2046_Floor_0001_Rm_Telco1_Rack_0001_	FTX1642856Q	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-19	Nexus5548								Bldg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201NJ	NCR QUAN Nodes	NCR	QUAN
QUAN-U03-AS-24	Nexus5548								Bidg_2084_Floor_0001_Room_Telco1_Rack_0001_	SSI172201N9	NCR QUAN Nodes	NCR	QUAN
QUAN-U08-DP-12	888								Bldg_2100A_Floor_0001_Room_0001_Rack_0001_	FTX1642854U	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-11	888								Bldg_24101_Floor_0001_Room_Telco1_Rack_0001_	FTX1642855Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-13	888								Bldg_24162_Floor_1_Room_Telco1_Rack_1_	FTX1642856M	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DH-02	3745								Bldg_24203_Floor_0001_Room_Telco1_Rack_0001_	FTX1012A38X	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DH-01	3745								Bidg_24204_Floor_0001_Room_105_Rack_0006_	FTX1012A38Z	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-01	888								Bldg_27005_Floor_0001_Room_Telco1_Rack_0001_	FTX16428561	NCR QUAN Nodes	NCR	
							1			FTX1642856J	NCR QUAN Nodes		QUAN
QUAN-U07-AS-60	WS-C2960-8TC-S						1		Bldg_27028_Floor_1_Room_Telco1_Rack_1_	FOC1722Z2G4		NCR	QUAN
QUAN-U07-DP-03	CISCO2911/K9								Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FTX1644AKYW	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-ES-03	SM-ES2-24								Bldg_27054_Floor_0001_Room_0001_Rack_0001_	FOC16403G1P	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-15	888								Bldg_27219_Floor_2_Room_219_Rack_1_	FTX1642854Y	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-DP-02	CISCO2911/K9								Bldg_27263_Floor_0001_Room_0001_Rack_0001_	FTX1652A00M	NCR QUAN Nodes	NCR	QUAN
QUAN-U07-ES-02	SM-ES2-24								Bldg_27263_Floor_0001_Room_Telco1_Rack_001_	FOC16507USN	NCR QUAN Nodes	NCR	QUAN
QUAN-U09-AS-04	CISCO2911/K9								BLDG_27410_FLR_01_RM_182_RN2_U30	FTX1644AKXN	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U08-AS-13	WS-C2960-8TC-S						1		Bldg_3084A_Floor_1_Room_Telco_Rack_1_	FOC1512V375	NCR QUAN Nodes	NCR	QUAN
							1			FOC1512V575 FOC1722Z2G0		NCR	
QUAN-U05-AS-27	WS-C2960-8TC-S						1		Bldg_3085B_Floor_1_Room_Telco1_Rack_1_		NCR QUAN Nodes		QUAN
QUAN-U00-IS-04	WS-C3560-24TS-S								Bldg_3255_Floor_0001_Room_179_Rack_0002_	FDO1239Z0XQ	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U99-SS-01	WS-C4503-E								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0002_	SPE1447006J	Test_Partition_Realm_Change	#VALUE!	
QUAN-UB1-CB-01	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1229GJFK	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-IS-02	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003_	FOX1045051Z	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U00-IR-01	Nexus9000 C9508 (8 Slot)								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0003-Row-0003_	FGE21252B1A	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U00-IR-02	Nexus9000 C9508 (8 Slot)								Bldg 3255 Floor 0001 Room ServerFarm Rack 0003-Row-0003	FGE21252B1W	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-03	WS-C3560-24TS-S								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FDO1236Y09Q	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-05	WS-C4948								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0004_	FOX10450523	MCEN INS QUAN Nodes	_	
										IAE10420223		MCEN	INS
QUAN-U00-IS-03	WS-C4500X-32								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0016_	JAE1943032Y	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-IS-01	WS-C4503								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1244GDUX	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-OS-02	WS-C4503								Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	FOX1224GFZ4	MCEN INS QUAN Nodes	MCEN	INS

QUAN-UB1-OS-01	WS-C6506-E				Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0044_	SAL1630HP4W	MCEN INS QUAN Nodes	MCEN	INS
QUAN-UB1-EO-01	WS-C6506-E				Bldg_3255_Floor_0001_Room_ServerFarm_Rack_0112_	SAL13516P34	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U01-BI-01	ASR1002-X				BLDG_3255_RM_179_ROW_4_RACK_1	FOX1938G7PZ	MARFORRES CLIN Nodes	MARFORRES	CLJN
QUAN-UB1-OR-01	CISCO3945-CHASSIS				Building 3255, Room 179, Row 4, Rack 1, RU1	FTX1644AK5S	MCEN INS QUAN Nodes	MCEN	INS
QUAN-U09-AS-08	WS-C3850-12XS					FCW1949F0Z4,FCW1949C17X	MCEN INS QUAN Nodes	MCEN	INS
QUAN-L00-IR-01	ASR1004				MCEN-ES	FOX1352GKYQ	MCEN INS Legacy Nodes	MCEN	INS
QUAN-L00-IS-01	WS-C3750G-48TS-E				MCEN-ES	FHG1413R0BJ	MCEN INS Legacy Nodes	MCEN	INS

		OLT Q	UAN-U03-OL-01
BLDG	ONT	COUNT	ONT SW
3			
	709GP	1	ONT709GP.3.21.3
72			
	140C	1	ONT140.1.7.34
1775			
1000	728GP	3	ONT728GP.3.20.7
1999	140C	1	ONT140.1.7.34
2044	1400	1	ON1140.1.7.54
2044	728GP	54	ONT728GP.3.20.7
2076	72001	31	014172001.0.2017
	709GP	1	ONT709GP.3.21.3
2118			
	140C	1	ONT140.1.7.34
2200			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
2202			
	709GP	1	ONT709GP.3.21.3
2203			
	709GP	2	ONT709GP.3.21.3
2204	70000	1	ONT700CD 2 24 2
2207	709GP	1	ONT709GP.3.21.3
2207	709GP	1	ONT709GP.3.21.3
2208	709GP	1	ON1709GF.3.21.3
2200	709GP	1	ONT709GP.3.21.3
2209	70301		01170301.3.21.3
	709GP	1	ONT709GP.3.21.3
2210			
	709GP	1	ONT709GP.3.21.3
2247			
	709GP	1	ONT709GP.3.21.3
2248			
	709GP	1	ONT709GP.3.21.3
2249			
2224	709GP	1	ONT709GP.3.21.3
2301	72000	1	ONT720CD 2 20 7
3077	728GP	1	ONT728GP.3.20.7
3077	728GP	1	ONT728GP.3.20.7
3086	72001		01172001.3.20.7
3000	709GP	1	ONT709GP.3.21.3
3230			
	709GP	1	ONT709GP.3.21.3
3232			
	709GP	1	ONT709GP.3.21.3
3240			
	140C	1	ONT140.1.7.34
3259			
0.5	709GP	1	ONT709GP.3.21.3
3399			ONTEROOD A SA S
24204	709GP	1	ONT709GP.3.21.3
24204	70000		ONT700GD 2 21 2
27282	709GP	1	ONT709GP.3.21.3
21202	709GP	1	ONT709GP.3.21.3
28000	703GP	1	
	709GP	1	ONT709GP.3.21.3
28009	230,		
	709GP	1	ONT709GP.3.21.3
	•		

			UAN-U07-OL-01
LDG 999	ONT	COUNT	ONT SW
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4005	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4006			_
4008	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4000	729GP	2	ONT729GP.3.20.7;ONT729_V005591
4009	729GP	3	ONT729GP.3.20.7;ONT729_V005591
4015	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4017	729GF	_	ON1729GF.3.20.7,ON1729_V003391
4018	729GP	2	ONT729GP.3.20.7;ONT729_V005591
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4142	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4144			_
4157	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4164	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4164	729GP	4	ONT729GP.3.20.7;ONT729_V005591
4180	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4191	72301	_	
4193	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	3	ONT729GP.3.20.7;ONT729_V005591
4194	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4195	720CD	1	ONT720CD 2 20 7:ONT720 V00FF01
4196	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4197	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4198	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4199	72000		
4200	729GP	1	ONT729GP.3.20.7;ONT729_V005591
4204	729GP	1	ONT729GP.3.20.7;ONT729_V005591
.234	729GP	1	ONT729GP.3.20.7;ONT729_V005591
7130	729GP	3	ONT729GP.3.20.7;ONT729_V005591
7282			
7130C	729GP	1	ONT729GP.3.20.7;ONT729_V005591
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
OTAL		38	
OTAL		31	

OLT QUAN-U08-OL-01											
BLDG	ONT	COUNT	ONT SW								
69											
	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
122											
	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
1304	720CD	1	ONT720CD 2 20 7:ONT720 1/00FF01								
1775	729GP		ONT729GP.3.20.7;ONT729_V005591								
	729GP	5	ONT729GP.3.20.7;ONT729_V005591								
1999			, =								
	140C	1	ONT140.1.7.34								
	140W	4	ONT140.1.7.34								
	729GP	3	ONT729GP.3.20.7;ONT729_V005591								
2033	720.00	1	ONIT 2000 2 20 7 ONIT 20 MOSE 504								
2044	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
2044	729GP	17	ONT729GP.3.20.7;ONT729_V005591								
2076	72301	17	014172501.5.20.7,0141725_4005551								
	709GP	1	ONT709GP.3.21.3								
2117											
	709GP	1	ONT709GP.3.21.3								
2187											
	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
2200	700.00	1	ONT700CD 2 24 2								
2301	709GP	1	ONT709GP.3.21.3								
2301	729GP	34	ONT729GP.3.20.7;ONT729_V005591								
3065	72301	34	ON1723G1 .3.20.7,ON1723_V003331								
	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3070			_								
	729GP	4	ONT729GP.3.20.7;ONT729_V005591								
3186											
2202	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3202	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3228	729GF		ON1729GF.3.20.7,ON1729_V003391								
	709GP	1	ONT709GP.3.21.3								
3229											
	728GP	1	ONT728GP.3.20.7								
	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3230	-06-		017700000000000000000000000000000000000								
2240	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3240	729GP	1	ONT729GP.3.20.7;ONT729 V005591								
3255	72308										
	709GP	1	ONT709GP.3.21.3								
	729GP	2	ONT729GP.3.20.7;ONT729_V005591								
3259											
	709GP	3	ONT709GP.3.21.3								
3280	72005		ONITZOCO Z 20 Z ONITZOS MOSES								
3300	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3300	709GP	1	ONT709GP.3.21.3								
3311	. 5551										
	729GP	2	ONT729GP.3.20.7;ONT729_V005591								
3312											
	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3313											
2244	729GP	1	ONT729GP.3.20.7;ONT729_V005591								
3314	729GP	2	ONT729GP.3.20.7;ONT729_V005591								
	/29GP		ON1723GF.3.20.7;ON1723_V005591								

		OLT QU	AN-U09-OL-01
BLDG	ONT	COUNT	ONT SW
1999			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
26100			
	709GP	1	ONT709GP.3.21.3
26164			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
26183			
	709GP	1	ONT709GP.3.21.3
27170			
	729GP	1	ONT729GP.3.20.7;ONT729_V005591
27277			
	729GP	6	ONT729GP.3.20.7;ONT729_V005591
27278			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
27277A			
	709GP	1	ONT709GP.3.21.3
27290TX			
	729GP	2	ONT729GP.3.20.7;ONT729_V005591
TOTAL		16	
TOTAL		8	
TOTAL		8	

1//2			
	709GP	1	ONT709GP.3.21.3
<b>2189A</b>			
	709GP	1	ONT709GP.3.21.3
2201A			
	709GP	1	ONT709GP.3.21.3
2203A			
	709GP	1	ONT709GP.3.21.3
3230T			
	709GP	1	ONT709GP.3.21.3
TOTAL		92	
TOTAL		28	
TOTAL		64	

140C
140W
709GP
728GP
729GP

Total 24 port switches Needed	De-Scope	146
Total SFP's	De-Scope	584

729GP	2	ONT729GP.3.20.7;ONT729_V005591				
729GP	2	ONT729GP.3.20.7;ONT729_V005591				
729GP	1	ONT729GP.3.20.7;ONT729_V005591				
709GP	1	ONT709GP.3.21.3				
729GP	2	ONT729GP.3.20.7;ONT729_V005591				
729GP	1	ONT729GP.3.20.7;ONT729_V005591				
	107					
	40					
	67					
	729GP 729GP 709GP 729GP	729GP 2 729GP 1 709GP 1 729GP 2 729GP 2 729GP 1				

<sup>\*\*</sup> Red-Highlighed items already have MCEN-N presense within those building arleady and are deemed out-of-scope until VSS.

<sup>\*\*</sup> All other legacy ONT devices will be replaced with C9300L-24P-4X-A switches

<b>Host Name</b>	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	/ mitsc
INHZ-U00-IR-01	INHZ	Router	Cisco	CISCO2911/K9						Naval Surface Warfare Center Indian Head MD Bldg 290	FTX1644AL07	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-IR-04	INHZ	L3Switch	Cisco	WS-C3750G-12S-E						Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X2G5	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-IS-01	INHZ	Router	Cisco	SM-ES2-24						Naval Surface Warfare Center Indian Head MD Bldg 290	FOC16403FPC	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U00-OS-03	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S						Naval Surface Warfare Center Indian Head MD Bldg 290	FDO1436X1Z8	MCEN INS QUAN Nodes	MCEN	INS
INHZ-U01-AS-01	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_521_Floor_1_Rm_Warehouse_Rack_1	FDO1436X243	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-02	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-S			1			4 Bldg_700_Floor_1_Room_RouterRm_Rack_1_	FDO1623X01R	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-03	INHZ	L3Switch	Cisco	WS-C3560V2-48TS-E			1			4 Bldg_2083_Floor_1_Room_storagecloset_Rack_1_	FDO1529X1YG	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-04	INHZ	L3Switch	Cisco	WS-C4506-E				3		4 Bldg_901_Floor_1_Room_112_Rack_1_	SPE173000BG	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-05	INHZ	L3Switch	Cisco	WS-C4506-E				3		2 Bldg_901_Floor_1_Room_Mail_Rack_1_	SPE173000CR	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-06	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_290_Floor_1_Rm_MSF_Rack_AccessCab2	FDO1436X2S3	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-07	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_D61_Floor_1_Room_Boiler_Rack_1_	FDO1645Y140	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-AS-08	INHZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				4 Bldg_870_Floor_1_Room_1_Rack_Wallrack_	FDO1437X03Q	NCR QUAN Nodes	NCR	QUAN
INHZ-U01-DS-01	INHZ	L3Switch	Cisco	WS-C3750G-12S-S					2	Bldg_290_Floor_1_Room_MSF_Rack_8_	FDO1402Y2EK	NCR QUAN Nodes	NCR	QUAN
				Total		4	2	6	2	30				

Host Name	site	Device Type	<b>Device Vendor</b>	Device Model	24 Port	48 Port	C9300-48P-A 3X	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	y mitsc
PKWY-U00-IR-01	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1423GAQ3	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IR-02	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1423GAQ2	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S					MCSC Tech Parkway Stafford VA	FDO1403X0CU	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-IS-04	PKWY	L3Switch	Cisco	WS-C3560V2-24TS-S					MCSC Tech Parkway Stafford VA	FDO1437X3GW	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OR-01	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1612GSN4	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OR-02	PKWY	L3Switch	Cisco	WS-C6503-E					MCSC Tech Parkway Stafford VA	FOX1612GSNH	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U00-OS-03	PKWY	L3Switch	Cisco	WS-C3750G-12S-S					Bldg_PKWY_Floor_0001_Room_Telco1_Rack_0001	FDO1403X0CP	MCEN INS QUAN Nodes	MCEN	INS
PKWY-U01-AS-01	PKWY	L3Switch	Cisco	WS-C4506-E				3	4 Bldg_105_Floor_0001_Room_0004_Rack_0001_	FOX1415G443	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-02	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_0001_Room_0004_Rack_0001_	SPE152500N1	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-03	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_2_Room_PG10_Rack_5_	FOX1429G267	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-04	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105_Floor_2_Room_MRAP_Rack_4_	FOX1405G60H	NCR QUAN Nodes	NCR	QUAN
PKWY-U01-AS-05	PKWY	L3Switch	Cisco	WS-C4506-E				3	2 Bldg_105TechPKY_Floor_GCSS_Room_Telco1_Rack_0003_	FOX1428H2JX	NCR QUAN Nodes	NCR	QUAN
				Total			1	15	12				

<b>Host Name</b>	site [	Device Type	<b>Device Vendor</b>	Device Model C9300L-24	C9300L-48	C9300-48P-A 3X SFP-10G-I	R++= Device Location	Serial Number	Asset Tag Partition	count company	mitsc
SCPA-U00-IR-01	SCPA F	Router	Cisco	3845			MCSC Barrett Heights Stafford VA Bldg 51	FTX1437AJGC,FOC12085P69	MCEN INS QUAN Nodes	5 MCEN	INS
SCPA-U00-OR-01	SCPA F	Router	Cisco	3845			MCSC Barrett Heights Stafford VA Bldg 51	FTX1437AJGF,FOC12085P6A	MCEN INS QUAN Nodes	5 MCEN	INS
SCPA-U01-AS-01	SCPA L	L3Switch	Cisco	WS-C4506-E		3	4 Bldg_51BH_Floor_0002_Room_Telco1_Rack_0001_	SPE17280251	NCR QUAN Nodes	4 NCR	QUAN
				Total		3	4				

<b>Host Name</b>	site	Device Type	<b>Device Vendor</b>	Device Model	C9300L-24	C9300L-48	C9300-48P-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
BAND-U00-IR-01	BAND	Router	Cisco	CISCO2911/K9					Bldg_1_Floor_Basement_Room_Basement_Telco_Rack_1_	FTX1644AKUW	MCEN INS QUAN Nodes	MCEN	INS
BAND-U00-IS-01	BAND	Router	Cisco	SM-ES2-24					Bldg_1_Floor_Basement_Room_BasementTelco_Rack_1_	FOC16418358	MCEN INS QUAN Nodes	MCEN	INS
BAND-U00-OR-01	BAND	Router	Cisco	ASR1002-X					Bldg_1_Floor_Basement_Room_Telco Rm_Rack_1_	FOX1829G0ZX	MCEN INS QUAN Nodes	MCEN	INS
BAND-U01-AS-01	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S			De-Scope 1	De-Scope 4	Bldg_1_Floor_Basement_Room_TelcoRm_Rack_1_	FDO1437V253	HQMC QUAN Nodes	HQMC	QUAN
BAND-U01-AS-02	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1			De-Scope 2	Bldg_1_Floor_1_Room_Lan RM_Rack_1_	FDO1621X11M	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-03	BAND	L3Switch	Cisco	WS-C3560V2-48TS-S		De-Scope 1		De-Scope 2	Bldg_1_Floor_2_Room_WireCloset_Rack_1_	FDO1623X01P	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-05	BAND	L3Switch	Cisco	WS-C3560X-48T-S		De-Scope 1		De-Scope 2	Bldg_1_Floor_2_Room_Telco Rm_Rack_1_	FDO1913P09U	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-AS-06	BAND	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1			De-Scope 2	Bldg_1_floor_Garage_Room_StorageRm_Rack_1_	FDO1437V25B	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BAND-U01-DS-01	BAND	L3Switch	Cisco	WS-C3750G-12S-S					Bldg_1_Floor_Basement_Room_TelcoRM_Rack_1_	FDO1408X10T	HQMC QUAN Nodes	HQMC	QUAN

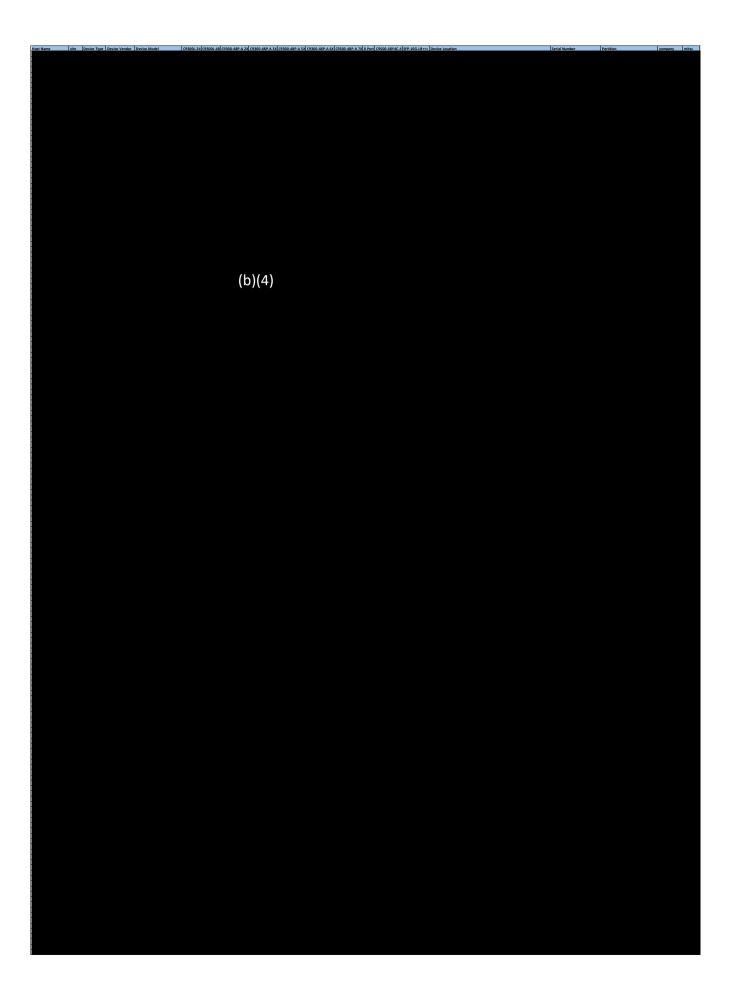
<sup>\*\*</sup> Row 10 (WS-3750G-12S-S) can be taken out of scope since all access switches will connect to row 5 (C9300-48P-A).

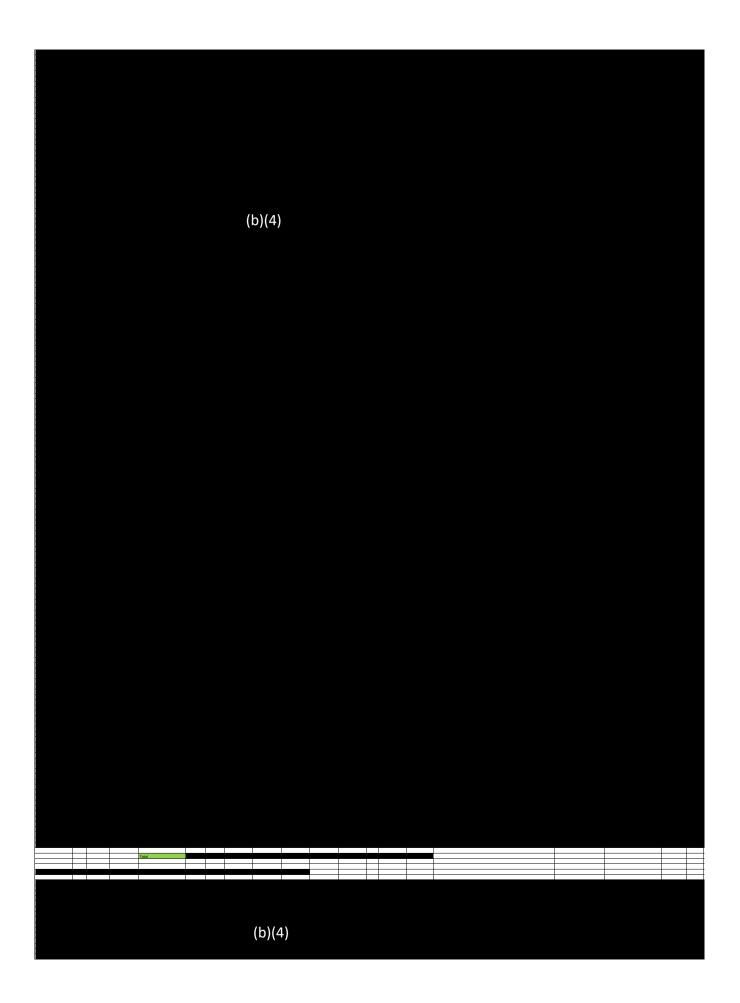
Host Name	site	Device Type	<b>Device Vendor</b>	Device Model	24 Port	48 Port	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
BRRK-U00-IR-01	BRRK	Router	Cisco	CISCO2921/K9							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AJKD	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IR-02	BRRK	Router	Cisco	CISCO2911/K9							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FTX1644AKRR	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-01	BRRK	Router	Cisco	SM-ES2-24							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC16403FY5	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-02	BRRK	Router	Cisco	SM-ES2-24							Bldg_8_Floor_2_Room_Server-Rm_Rack_3_	FOC1641834K	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-IS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_700_Floor_2_Room_Server_Rack_2_	FDO1436X1ZL	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-OR-01	BRRK	Router	Cisco	ASR1002-X							Bldg_700_Floor_2_Room_Server_Rack_3_	FOX1830GSKX	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U00-OS-03	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_700_Floor_2_Room_Server_Rack_3_	FDO1436X265	MCEN INS QUAN Nodes	MCEN	INS
BRRK-U01-AS-01	BRRK	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 4	Bldg_700_Floor_1_Room_S1_Rack_1_	SPE173400CX	HQMC QUAN Nodes	HQMC	QUAN
BRRK-U01-AS-02	BRRK	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 2	Bldg_700_Floor_2_Room_mfd_Rack_1_	SPE173000ET	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-03	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_9_Floor_Basement_Room_LAN Room_Rack_1_	FXS1733Q0TH	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-04	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_20_Floor_Garage_Room_LanRoom_Rack_1_	FXS1735Q2F2	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-05	BRRK	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_21_Floor_1_Room_1_Rack_1_	FXS1733Q0YY	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-06	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS1_Floor_Basement_Room_Comm_Rack_1_	FDO1436X2SJ	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-07	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS2_Floor_Basement_Room_Comm_Rack_1_	FDO1436X26H	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-08	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS3_Floor_Basement_Room_Comm_Rack_1_	FDO1436X1SK	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-09	BRRK	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_QTRS4_Floor_Basement_Room_Comm_Rack_1_	FDO1436X3J4	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-AS-10	BRRK	L3Switch	Cisco	WS-C3560V2-48TS-S		De-Scope 1				De-Scope 4	Bldg_CMC_Floor_Basement_Room_CommRm_Rack_1_	FDO1630X009	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-DS-01	BRRK	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CK	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
BRRK-U01-DS-02	BRRK	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_700_Floor_2_Room_MDF_Rack_2_	FDO1403X0CS	HQMC QUAN Nodes	HQMC	QUAN
				Total		0	0	0	0	0	0				

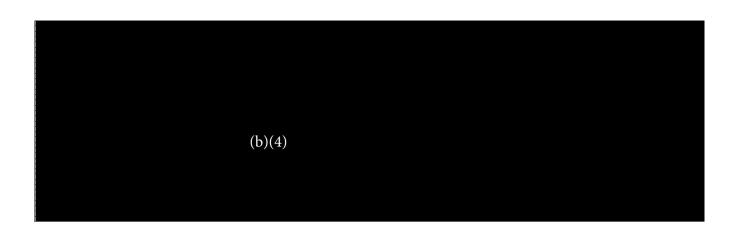
Host Name	site	Device Type	<b>Device Vendor</b>	Device Model	C9300L-24	C9300L-48	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	/ mitsc
WNYZ-L00-CB-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U								FOC1110Z342	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-CB-02	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U								FOC0935U0UT	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-CB-03	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-S1U								FOC1030Y47D	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-IR-01	WNYZ	Router	Cisco	ASR1002-X								FOX1830GSKY	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-IS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U							MCEN-ES	FOC1110Z20E	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-OR-01	WNYZ	Router	Cisco	ASR1006								FXS1817Q2D3	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-L00-OS-01	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U							MCEN-ES	FOC1110Y2BD	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-01	WNYZ	Router	Cisco	CISCO2911/K9							Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FTX1644AKZ6	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-02	WNYZ	Router	Cisco	CISCO2911/K9							Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FTX1644AL58	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IR-04	WNYZ	L3Switch	Cisco	WS-C3750G-12S-E							Bldg_220_Floor_2_Room_220_Rack_1_	FDO1436X2HF	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IS-01	WNYZ	Router	Cisco	SM-ES2-24							Bldg_196_Floor_2_Room_ServerFarm_Row_8_Rack_2_	FOC17440MJX	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-IS-02	WNYZ	Router	Cisco	SM-ES2-24							Bldg_196_Floor_2_Room_Server Farm_Row_8_Rack_2_	FOC17440MG6	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U00-OS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S							Bldg_196_Floor_2_Room_ServerFarm_Rack_2/RowA_	FDO1529X1J2	MCEN INS QUAN Nodes	MCEN	INS
WNYZ-U01-AS-03	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_196_Floor_3_Room_302_Rack_1_	FDO1645Y12P	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-04	WNYZ	L3Switch	Cisco	WS-C4506-E				De-Scope 3		De-Scope 4	Bldg_220_Floor_2_Room_220_Rack_1_	FOX1346GVRV	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-05	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_211_Floor_1_Room_Telco	FDO1542X352	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-06	WNYZ	L3Switch	Cisco	WS-C3750G-24TS-E1U	De-Scope 1					De-Scope 4	Bldg_196_Floor_2_Room_243_Rack_16_	FOC1209Z4UT	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-07	WNYZ	L3Switch	Cisco	WS-C4503-E			De-Scope 2			De-Scope 4	Bldg_169_Floor_1_Room_Storage_Rack_1_	FXS1735Q2E7	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-AS-08	WNYZ	L3Switch	Cisco	WS-C3560V2-24TS-S	De-Scope 1					De-Scope 4	Bldg_Qtrs V_Floor_2_Room_upstair_Rack_1_	FDO1645Y135	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-DS-01	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2EB	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
WNYZ-U01-DS-02	WNYZ	L3Switch	Cisco	WS-C3750G-12S-S					De-Scope 1		Bldg_196_Floor_2_Room_SF_Row_8_Rack_2_	FDO1402Y2FX	HQMC QUAN Nodes	HQMC	QUAN
				Total		0		0	0	0	n				

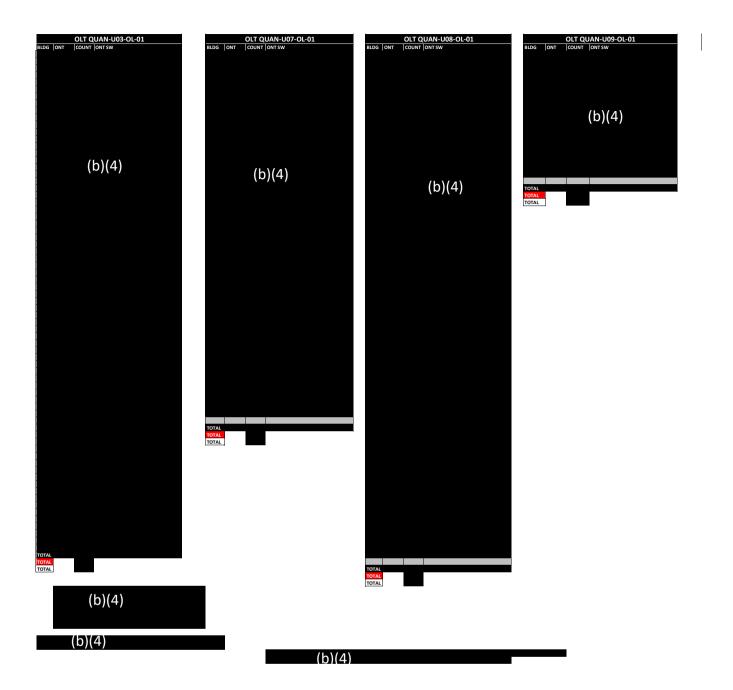
Host Name	site	<b>Device Type</b>	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
ANNZ-U00-IR-01	ANNZ	Router	Cisco	CISCO3925-CHASSIS						Bldg_72_Floor_1_Room_140_Rack_1_	FTX1644AHV3	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U00-IS-01	ANNZ	Router	Cisco	SM-ES2-24						Bldg_72_Floor_1_Room_140_Rack_1_	FOC16403FQA	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U00-OS-03	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S						Bldg_72_Floor_1_Room_143_Rack_1_	FDO1436X26E	MCEN INS QUAN Nodes	MCEN	INS
ANNZ-U01-AS-02	ANNZ	L3Switch	Cisco	WS-C4506-E				3		4 Bldg_351_Floor_1_Room_Admin_Rack_1_	FXS1732Q0DX	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-AS-03	ANNZ	L3Switch	Cisco	WS-C3560-48TS-S			1			2 Bldg_351_Floor_2_Room_1_Rack_1_	FDO1431Z0YP	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-04	ANNZ	L3Switch	Cisco	WS-C3560V2-24TS-S		1				2 Bldg_352B_Floor_1_Room_1_Rack_1_	FDO1632X2QY	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-05	ANNZ	L3Switch	Cisco	WS-C3750G-24TS-S		1				2 Bldg_352A_Floor_1_Room_1_Rack_1_	CAT1050RGD2	<b>HQMC QUAN Nodes</b>	HQMC	QUAN
ANNZ-U01-AS-99	ANNZ	Router	Cisco	C891F-K9						Bldg_351_Floor_1_Room_120_Rack_FSRDesk	FJC2034L1RJ	MARFORRES CLJN Nodes	MARFORRES	CLJN
ANNZ-U01-BI-01	ANNZ	Router	Cisco	CISCO2921/K9						VERIZON-CIRCUIT-ID (BCBKSDH60001) T-1	FTX1424AHN8	MARFORRES CLIN Nodes	MARFORRES	CLJN
ANNZ-U01-DH-01	ANNZ	Router	Cisco	2811	l					Bldg_351_Floor_1_Room_109_Rack_1_	FTX1436A0XC	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-DP-02	ANNZ	Router	Cisco	CISCO2911/K9						Bldg_400A_Floor_1_Room_1_Rack_1_	FTX1644AKYX	HQMC QUAN Nodes	HQMC	QUAN
ANNZ-U01-ES-02	ANNZ	Router	Cisco	SM-ES2-24						Bldg_400A_Floor_1_Room_1_Rack_1_	FOC1614709K	HQMC QUAN Nodes	HQMC	QUAN
	•													
				Total		2	1	3	0	10				











Host Name	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company mitsc
					(b)(4	4)							
										-			

Host Name	site	Device Type	Device Vendor	Device Model	24 Port	48 Port	C9300-48P-A 3X	SFP-10G-LR++=	Device Location	Serial Number	Partition	company	mitsc
					/1 \ / 4\								
					(b)(4)								
					. , . ,								
				Total									

Host Name site Device Type Device Vendor Device Model C9300L-24 C9300L-24 C9300L-48 C9300L-48 P-A 3X SFP-10G-LR++= Device Location Serial Number Asset Tag Partition count company mits

Total

Host Name	site	Device Type	Device Vendor	Device Model	C9300L-24	C9300L-48	C9300-48P-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company mitsc
						/b\//1\						
						(b)(4)						
				Total								

Host Name	site Device Ty	pe Device Vendor	r Device Model	24 Port	48 Port	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Partition	company mitso
					(b)(4	<b>4</b> \							
					(1)(0)	+)							
										•			
			Total										

Host Name		Davidson Warre	Device Vendor	Burden Mandal	C9300L-24	C9300L-48	C9300-48P-A 2X	C9300-48P-A 3X	C9500-48Y4C-A	SFP-10G-LR++=	Device Location	Serial Number	Baratata -	
Host Name	site	Device Type	Device vendor	Device Model	C9300L-24	C9300E-48	C9300-48P-A ZX	C9300-48P-A 3X	C9500-4814C-A	5FP-10G-LR++=	Device Location	Serial Number	Partition	company mitsc
						71.3	/ a \							
						(b)	(4)							
						( > )	(')							
			· ·			· ·		<u>'</u>					· ·	

Total

Host Name site Device Type Device Vendor Device Model C9300L-24 C9300L-48 C9300-48P-A 3X C9500-48Y4C-A SFP-10G-LR++\* Device Location Serial Number Partition company mitso

# FOR MARINE CORPS BASE QUANTICO QUANTICO, VIRGINIA

30 Nov 2021



#### Prepared By:

# UNITED STATES MARINE CORPS Program Executive Office Digital and Enterprise Services Portfolio, Infrastructure Services Infrastructure Services, Transport and Communications (ISTC) Team

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#### 1 GENERAL

This is a Firm-Fixed-Price (FFP) Contract, for the Infrastructure Services, Transport and Communications (ISTC) program office to modernize the enterprise communications infrastructure aboard Marine Corps Base (MCB) Quantico, VA.

The services included in this FFP contract will be non-personal services. The Government shall not exercise any supervision or control over the contract service providers performing the services herein. Such contract service providers shall be accountable solely to the contractor who, in turn is responsible to the Government. The Government will describe the specific performance requirements at the task and delivery order level, but all work performed will fall within the general scope described herein.

#### 1.1 DESCRIPTION OF SERVICES / INTRODUCTION

The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform modernization and sustainment services as defined in this Performance Specification except for those items specified as Government Furnished Property (GFP) and services. The contractor shall perform to the standards articulated in this contract.

#### 1.2 BACKGROUND

Traditionally, Marine Corps Systems Command (MCSC), ISTC Program Office (previously known as the Base Telecommunications Infrastructure) has been responsible for the upgrade and expansion of the Marine Corps' legacy Time Division Multiplexing (TDM) voice systems, Synchronous Optical Network (SONET), and outside plant (OSP) cable infrastructure. These previous efforts were typically executed via individual FFP Contracts. Due to advancing technologies and increased requirements, the BTI mission expanded to include the complete modernization/replacement of all Low Speed Time Division Multiplexing (LSTDM) technologies. More recently, the ITSC mission has expanded to include the modernization of the Distribution and Access Layer Transport infrastructure to the End-User Building (EUB). As a result, ISTC is now responsible for the modernization and sustainment of the Base Area Network (BAN)/Local Area Network (LAN) and the Unified Communications (UC) at every Marine Corps Installation (MCI).

#### 1.3 OBJECTIVES

The objective of this initiative is the complete modernization of the Base Telecommunications Infrastructure (BTI) aboard MCB Quantico in accordance with (IAW) the Marine Corps Wide Area Network (WAN) Transport Implementation Plan that aligns with the normalization of the Joint Information Environment (JIE). This will be realized through the enterprise-wide deployment of homogeneous systems and subsystems in order to minimize operation demands on Installation personnel and simplify sustainment activities for the ITSC Program Office. This modernization effort shall include the BAN Transport and Unified Communications aboard MCB Quantico that will support the details in Sections 5.1 and 8.2 of this PWS. The overall intent of this PWS is to establish a standardized enterprise solution with the flexibility for a System Integrator (SI) to support sustainment activities that includes technical refresh and unforeseen systems upgrades to hardware, software, and ancillary equipment.

#### 1.4 SCOPE

This PWS establishes and defines the requirements for the contractor to Engineer, Furnish, Install, Secure, Test (EFIST) and make operational a turnkey BAN Transport and Enterprise UC Voice solution for the modernization of the existing communication infrastructure at MCB Quantico – or other USMC facilities as defined by the Government – to include enterprise integration and convergence. The contractor shall also provide all ancillary equipment, labor, training, software, firmware, licenses, grounding, and interfaces associated with these systems to deliver a complete turnkey solution. The contractor shall provide all supporting documentation associated with the delivered solution.

#### 1.5 ORDERING PERIOD / PERIOD OF PERFORMANCE

The delivery for this modernization effort will be 18 months after contract award.

#### 1.6 GENERAL INFORMATION

#### 1.6.1 RECOGNIZED HOLIDAYS

The contractor is not required to perform work or services on the Federal Government holidays identified below.

New Year's Day
Martin Luther King Jr.'s Birthday
Columbus Day
President's Day
Weteran's Day
Thanksgiving Day
Juneteenth
Christmas Day

Independence Day

#### 1.6.2 HOURS OF OPERATION

The contractor shall provide services IAW Marine Corps Systems Command Order 5530.2, working hours for on-site contractors shall be within 0630-1800 local time. All work shall typically be performed within the Government-defined core hours. There may be a need for occasional work outside of normal Government-defined core hours. No overtime will be authorized.

#### 1.6.3 PLACE OF PERFORMANCE

The work to be performed under this FFP Contract will be performed at MCB Quantico in Quantico, VA.

#### 1.6.4 TYPE OF CONTRACT

The Government will award a FFP Contract issued for specific work at MCB Quantico.

#### 1.6.5 PHYSICAL SECURITY

The contractor shall be responsible for safeguarding all Government equipment, information and property provided for contractor use. At the close of each work period, Government facilities, equipment, and materials shall be secured.

#### 1.6.6 SECURITY REQUIREMENTS

The information provided to the contractor will be unclassified and/or Controlled Unclassified Information (CUI). Certain contractors will be required to perform IT-I/II duties that require favorably adjudicated Tier 5/3 Level investigations. The Defense Counterintelligence Security Agency (DCSA) will not authorize contractors to submit the necessary Tier Level investigations, solely in support of IT level designation requirements, without a valid classified requirement as specified in a DD-254. This effort does not warrant a DD-254, therefore the Government Contracting Activity Security Office (GCASO) is required to submit any required investigations in support of IT level designations. The contractor is required to provide a roster of prospective contractor employees performing IT Level II and/or IT Level I duties to the MCSC Contracting Officer's Representative (COR). This roster shall include: full names, Social Security Numbers, IT Level required, e-mail address, and phone number for each contractor requiring investigations in support of IT Level designations. The COR will verify the IT Level requirements and forward the roster to the GCASO. Contractors found to be lacking required investigations will be contacted by the GCASO.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) via encrypted e-mail to MCSC\_Security@usmc.mil or 703-432-3374/3952 if any contractor performing on this contract receives an unfavorable adjudication. The FSO must also notify the PERSEC Office, within 24 hours, of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor performing on this contract, if they have been granted an IT designation, issued a CAC and/or a MCSC Building Badge. The FSO shall notify the Government (written notice) within 24 hours of any contractor personnel added or removed from the contract that have been granted IT designations, issued a Common Access Card (CAC) and/or a MCSC Building badge/access.

#### 1.6.6.1 DEFENSE BIOMETRIC IDENTIFICATION CARD

Certain contractors may require the issuance of a Defense Biometric Identification (DBID) card in order to gain access to MCB Quantico. The Contracting Officer Representative (COR) will identify and approve only those contractor personnel performing on this contract that require a DBID card in order to perform their job function aboard the base.

#### 1.6.6.2 VENDOR SCREENING

The contractor shall return a completed Contractor Screening Form, which will be provided as Attachment (5) to the SF1449, in order to identify all contractor personnel requiring access to Installations/Detachments, base facilities, and/or handling Government assets. This form includes personal identification information for respective contractor personnel and shall be either: hand delivered to the Installation Technical Support Officer (TSO) or sent in a password protected document. If the vendor screening form is sent via e-mail, the password shall be provided and sent in a separate email. The contractor shall provide a completed form to the TSO no later than two (2) weeks prior to the start of work for processing and vetting by the Installation/Detachment Security Office. The Security Office will respond with any favorable or unfavorable screening outcomes as they are received from the Installation Provost Marshall's Office (PMO). Any personnel receiving an unfavorable outcome will not be authorized access to the Installation for the purpose of performing work related to this contract.

All required escorts shall be provided by Base, G/S-6 staff. It is the contractor's responsibility to secure any facility upon exiting the facility for which they are provided a key and unescorted access. The Base, G/S-6 will exercise security supervision over all contractor personnel working on this project and will provide security support to the contractor. The contractor shall comply with all emergency rules and procedures established for this Base. All personnel aboard the Base are subject to random inspections of their vehicles, personal items, and of themselves. Consent to these inspections is considered to have been given upon entrance to the base and its facilities. Photography, videotaping, and/or audio recordings aboard the base are strictly prohibited without proper authorization by the local Base authorities.

#### 1.6.6.3 COMMON ACCESS CARD

The COR will identify and only approve those contractor employees performing on this contract that require CACs in order to perform their job function. In accordance with Headquarters, United States Marine Corps issued guidance relative to Homeland Security Presidential Directive – 12 (HSPD-12), all personnel must meet eligibility criteria to be issued a CAC. In order to meet the eligibility criteria, contractor employees requiring a CAC must obtain and maintain a favorably adjudicated Personnel Security Investigation (PSI). Prior to authorizing a CAC, the employee's Joint Personnel Adjudication System (JPAS) record must indicate a completed and favorably adjudicated PSI or (at a minimum) that a PSI has been submitted and accepted (opened). The minimum acceptable investigation is a T-1 or a National Agency Check with Written Inquiries (NACI). If a contractor employee's open investigation closes and is not favorably adjudicated, the CAC must be immediately retrieved and revoked. CACs are not issued for convenience.

Facility Security Officers (FSOs) are responsible for notifying the MCSC AC/S G-2 Personnel Security Office (PERSEC Office) at 703-432-3490/3952 if any contractor performing on this contract receives an unfavorable adjudication after being issued a CAC. The FSO must also immediately notify the PERSEC Office of any adverse/derogatory information associated with the 13 Adjudicative Guidelines concerning any contractor issued a CAC, regardless of whether a JPAS Incident Report is submitted.

Each CAC is issued with a "ctr@usmc.mil" e-mail account that the individual contractor is responsible to keep active by logging in on a regular basis (at least twice a month), sending an e-mail and clearing any unneeded e-mails. Contractors issued a CAC are prohibited from "auto- forwarding" e-mail from their .mil e-mail account to their .com e-mail account. If the "ctr@usmc.mil" e-mail account is not kept active, G-6 will deactivate the account and the CAC will also lose its functionality. Contractor employees shall solely use their government furnished "ctr@usmc.mil" e-mail accounts for work supporting the USMC, conducted in fulfillment of this contract, and shall not use a contractor supplied or personal e-mail account to conduct FOUO government business. The use of a contractor or personal e-mail account for contractor business or personal use is allowed, but only when using cellular or a commercial internet service provider.

If a contractor loses their eligibility for a CAC due to an adverse adjudicative decision, they have also lost their eligibility to perform on MCSC contracts.

#### 1.6.6.4 MARINE CORPS ENTERPRISE NETWORK COMPUTER ACCESS

Contractor personnel accessing Marine Corps Systems Command Computer systems must maintain compliance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access

Guide. Contractor personnel will submit a DD Form 2875, Systems Authorization Access Request (SAAR), and completion certificates for the CYBERC course located on MarineNet at https://www.marinenet.usmc.mil. The CYBERC course consists of the DoD Cyber Awareness Challenge and Department of the Navy Annual Privacy Training on Personally Identifiable Information (PII). Contractors will have to create a MarineNet account in order to acquire the required training.

Marine Corps Enterprise Network (MCEN) Information Technology (IT) resources if provided are designated For Official Use Only (FOUO) and other limited authorized purposes. DoD military, civilian personnel, consultants, and contractor personnel performing duties on MCEN information systems may be assigned to one of three position sensitivity designations.

- 1. ADP-I (IT-1): Favorably adjudicated T-5, T5R, (formerly known as Single Scope Background Investigation (SSBI)/SSBI Periodic Reinvestigation (SBPR)/SSBI Phased Periodic Reinvestigation (PPR))
- 2. ADP-II (IT-2): Favorably adjudicated T-3, T3R, (formerly known as Access National Agency Check and Inquiries (ANACI)/ National Agency Check with Law and Credit (NACLC)/Secret Periodic Review (S-PR))
- 3. ADP-III (IT-3): Completed T-1, (formerly known as National Agency Check with Inquiries (NACI))

All privileged users (IT-1) must undergo a T-5 investigation regardless of the security clearance level required for the position. Privileged users must maintain the baseline Cyberspace Workforce Cybersecurity Technical (CST) or Cybersecurity Manager (CSM) relating to the position being filled. Privileged users are defined as anyone who has privileges over a standard user account as in system administrators, developers, network administrators, code signing specialist and Service Desk technicians.

All MCEN users must read, understand, and comply with policy and guidance to protect classified information and Controlled Unclassified Information (CUI), and to prevent unauthorized disclosures in accordance with United States Marine Corps Enterprise Cybersecurity Manual 007 Resource Access Guide and CJCSI 6510.01F.

MCEN Official E-mail Usage - MCEN IT resources are provided FOUO and other limited authorized purposes. Authorized purposes may include personal use within limitations as defined by the supervisor or the local command. Auto forwarding of e-mail from a MCEN Non-classified Internet Protocol Network MCEN-N) to commercial or private domains (e.g., Hotmail, Yahoo, Gmail, etc.) is strictly prohibited. E-mail messages requiring either message integrity or non-repudiation are digitally signed using DoD Public Key Infrastructure (PKI). All e-mail containing an attachment or embedded active content must be digitally signed.

MCEN users will follow specific guidelines to safeguard CUI, including PII and FOUO. Non-official e-mail is not authorized for and will not be used to transmit CUI to include PII and Health Insurance Portability and Accountability Act (HIPAA) information. Non-official e-mail is not authorized for official use unless under specific situations where it is the only mean for communication available to meet operational requirements. This can occur when the official MCEN provided e-mail is not available but must be approved prior to use by the Marine Corps Authorizing Official (AO).

All personnel will use DoD authorized PKI certificates to encrypt e-mail messages if they contain any of the following:

- 1. Information that is categorized as FOUO or Sensitive but Unclassified (SBU).
- 2. Any contract sensitive information that normally would not be disclosed to anyone other than the intended recipient.
- 3. Any privacy data, PII, or information that is intended for inclusion in an employee's personal file or any information that would fall under the tenets of MSGID: DOC/5 USC 552A. Personal or commercial e-mail accounts are not authorized to transmit unencrypted CUI or PII.
- 4. Any medical or health data, to include medical status or diagnosis concerning another individual.
- 5. Any operational data regarding status, readiness, location, or deployment of forces or equipment.

#### 1.6.6.5 KEY CONTROL

The contractor shall establish and implement methods of making sure all keys/key cards issued to the contractor by the Government are not lost or misplaced and are not used by unauthorized persons.

**NOTE:** All references to keys include key cards.

No keys issued to the contractor by the Government shall be duplicated. The contractor shall develop procedures covering key control that shall be included in the Quality Control Plan. Such procedures shall include turn-in of any issued keys by personnel who no longer require access to locked areas. The contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the Contracting Officer.

In the event keys, other than master keys, are lost or duplicated, the contractor shall, upon direction of the Contracting Officer, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be deducted from the next payment due the contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from the next payment due the contractor.

The contractor shall prohibit the use of Government issued keys/key cards by any persons other than the contractor's employees. The contractor shall prohibit the opening of locked areas by contractor employees to permit entrance of persons other than contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the Contracting Officer.

#### 1.6.6.6 LOCK COMBINATIONS

The contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the contractor's Quality Control Plan.

#### 1.6.7 POST AWARD CONFERENCE/PERIODIC MEETINGS

The contractor agrees to attend any post award conference convened by the contracting activity in accordance with Federal Acquisition Regulation Subpart 42.5. The Contracting Officer, Contracting Officer's Representative (COR), and other Government personnel, as appropriate, may meet periodically with the contractor to review the contractor's performance. At these meetings the Contracting Officer will apprise the contractor of how the Government views the contractor's performance and the contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the Government.

#### 1.6.8 CONTRACTING OFFICER'S REPRESENTATIVE

The COR(s) will be identified by separate letter(s) and monitors all technical aspects of the FFP Contract, task and delivery orders, and assists in contract administration. The COR(s) is authorized to perform the following functions: assure that the contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the contractor concerning technical aspects of the contract; issue written interpretations of technical requirements, including Government drawings, designs, specifications; monitor contractor's performance and notify both the Contracting Officer and contractor of any deficiencies; coordinate availability of GFP; and provide site entry of contractor personnel. A letter of designation issued to the COR(s), a copy of which is sent to the contractor, states the responsibilities and limitations of the COR(s), especially regarding changes in price estimates or changes in delivery dates or periods of performance. The COR(s) is/are not authorized to change any of the terms and conditions of the resulting order, especially any terms that affect price, delivery schedule, or period of performance.

#### 1.6.9 KEY PERSONNEL

The contractor shall provide a Project Manager who shall be responsible for the performance of the work. The name of this person and an alternate who shall act for the contractor when the manager is absent shall be designated in writing to the Contracting Officer. The Project Manager or alternate shall have full authority to act for the contractor on all contract matters relating to daily operation of this contract.

The Project Manager or alternate shall be available between 8:00 AM to 4:30 PM, Monday thru Friday based on the time zone of the location/Installation except Federal holidays or when the Government facility is closed for administrative reasons.

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Qualifications for all key personnel are listed in <u>Table 1 Table 1</u>.

Table 1 - Kev Personnel\*

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KEY PERSONNEL	CERTIFICATIONS	EXPERIENCE	SKILL	PROJECT SEQEMENT
Project Manager	Certified PMP or equivalent experience	7 Years Project Management	Proven leadership, management, and organizational skills	Implementation
On-Site Project Manager	Certified PMP or equivalent experience	7 Years Project Management	Proven leadership, management, and supervisory skills	Implementation
Quality Control/Quality Assurance Manager	BICSI Installer Certified	7 Years QC/QA Management	Proven telecommunications quality management skills	Implementation
Lead Systems Engineer (LSE)	BS Science/Engineering	10 Years Engineering Discipline	Licensed Professional Engineer (PE)	Implementation
Network/Telecommunications Engineer	Registered Communications Distribution Design (RCDD)	10 Years Network/ Telecommunications	Proven telecommunications design and installation skills	Implementation
Logistician	Certified Professional Logistician	5 Years Logistics Management	Proven leadership, management, and organizational skills	Sustainment

<sup>\*</sup> For the Quality Control/Quality Assurance Manager, the Contractor may swap 5 years of relevant QC/QA experience for the BICSI certification.

#### 1.6.10 IDENTIFICATION OF CONTRACTOR EMPLOYEES

All contract personnel attending meetings, answering Government telephones, and working in any situations where their contractor status is not obvious to third parties are required to identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials. They must also ensure that all documents or reports produced by contractors are suitably marked as contractor products or that contractor participation is appropriately disclosed. Contractors shall obtain visitor badges in accordance with MCB Quantico security policy.

#### 1.6.11 CONTRACTOR TRAVEL

The contractor may be required to travel to off-site training locations and to ship training aids to these locations in support of this PWS. Contractor may be authorized travel expenses consistent with the substantive provisions of the Federal Acquisition Regulation 31.205-46 and the limitation of funds specified in each task and delivery order. All travel requires prior Government approval/authorization by the COR(s).

#### 1.6.12 ORGANIZATION CONFLICT OF INTEREST

To the extent that the work under this contract requires access to proprietary, business confidential, or financial data of other companies, and as long as these data remain proprietary or confidential, the contractor shall protect the data from unauthorized use and disclosure and agrees not to use it to compete with those other companies.

1. "Organizational Conflict of Interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. "Person" as used herein includes corporations, partnerships, joint ventures, and other business enterprises.

<sup>\*</sup> For the Logistician, the Contractor may swap 5 years of logistics experience for the Certified Professional Logistician certification

- 2. The contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in the contract, the contractor does not have any organizational conflict of interest(s) as defined in paragraph (1).
- 3. It is recognized that the effort to be performed by the contractor under this contract may create a potential organizational conflict of interest on the instant contract or on a future acquisition. In order to avoid potential conflict of interest, and at the same time to avoid prejudicing the best interest of the government, the right of the contractor to participate in future procurement of equipment and/or services that are the subject of any work under this contract shall be limited as described below in accordance with the requirements of FAR Subpart 9.5.

#### 4. The contractor agrees:

- a) That it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the government any information provided to the contractor by the government during or as a result of performance of this contract. Such information includes, but is not limited to, information submitted to the government on confidential basis by other persons. Further, the prohibition against release of government provided information extends to cover such information whether or not in its original form, e.g., where the information has been included in contractor generated work or where it is discernible from materials incorporating or based upon such information. This prohibition shall not expire after a given period of time. See, DFARS 252.204-7000, Disclosure of Information, included in the contract.
- b) The contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure or any party outside the government any information generated or derived during or as a result of performance of this contract.
- c) The prohibitions contained in subparagraphs (4)(a) and (4)(b) shall apply with equal force to any affiliate of the contractor, any subcontractor, consultant, or employee of the contractor, any joint venture involving the contractor, any entity into or with which it may merge or affiliate, or any successor or assign of the contractor. The terms of paragraph (f) of the Special contractor Requirement relating to notification shall apply to any release of information in contravention of this paragraph (4).
- 5. The contractor further agrees that during the performance of this contract and for a period of three years after completion of performance of this contract, the contractor; any affiliate of the contractor; any subcontractor, consultant, or employee of the contractor; any joint venture involving the contractor; any entity into or with which it may subsequently merge or affiliate; or any other successor or assign of the contractor, shall not furnish to the Marine Corps, either as a prime contractor or as a subcontractor, or as a consultant to a prime contractor or as a subcontractor, any system, component or services which is the subject of the work to be performed under this contract. This exclusion does not apply to any re-competition for those systems, components, or services on the basis of work statements growing out of the effort performed under this contract, developed from a source other than the contractor, subcontractor affiliate, or assign of either. During the course of performance of this contract or before the three-year period following completion of this contract has lapsed, the contractor may, with the authorization of the cognizant contracting officer, participate in a subsequent procurement for the same system, component, or service. In other words, the contractor may be authorized to

- compete for procurement(s) for systems, components or services subsequent to an intervening procurement.
- 6. The contractor agrees that, if after award, it discovers an actual or potential organizational conflict of interest; it shall make immediate and full disclosure in writing to the contracting officer. The notification shall include a description of the actual or potential organizational conflict of interest, a description of the action, which the contractor has taken or proposes to take to avoid, mitigate, or neutralize the conflict, and any other relevant information that would assist the contracting officer in making a determination on this matter. Notwithstanding this notification, the government may terminate the contract for the convenience of the government if determined to be in the best interest of the government.
- 7. Notwithstanding paragraph (6) above, if the contractor was aware, or should have been aware, of an organizational conflict of interest prior to the award of this contract or becomes, or should become aware of an organizational conflict of interest after award of this contract and does not make an immediate and full disclosure in writing to the contracting officer, the government may terminate this contract for default.
- 8. If the contactor takes any action prohibited by this requirement or fails to take action required by this requirement, the government may terminate this contract by default.
- 9. The contracting officer's decision as to the existence or nonexistence of the actual or potential organization conflict of interest shall be final and is not subject to the clause of this contract entitled "DISPUTES" (FAR 52.233.1).
- 10. Nothing in this requirement is intended to prohibit or preclude the contractor from marketing or selling to the United States Government its product lines in existence on the effective date of this contract; nor, shall this requirement preclude the contractor from participating in any research and development. Additionally, sale of catalog or standard commercial items are exempt from this requirement.
- 11. The contractor shall promptly notify the contracting officer, in writing, if it has been tasked to evaluate or advise the government concerning its own products or activities or those of a competitor in order to ensure proper safeguards exist to guarantee objectivity and to protect the government's interest.
- 12. The contractor shall include this requirement in subcontracts of any tier which involve access to information or situations/conditions covered by the preceding paragraphs, substituting "subcontractor" for "contactor" where appropriate.
- 13. The rights and remedies described herein shall not be exclusive and are in addition to other rights and remedies provided by law or elsewhere included in this contract. 5.4. Proprietary Information Exchange Agreement (PIEA)/Non-Disclosure Agreements (NDA). The contractor shall arrange the signature on all PIEA/non-disclosure agreements necessary to interface with other contractors to accomplish the contract requirements in accordance with FAR 9.505-4 prior to beginning any efforts associated with this PWS. Copies of all non-disclosure agreements required for this contract shall be provided to the Contracting Officer and COR.

#### 1.6.13 SYSTEM SECURITY PLAN

- 1. System Security Plan and Plans of Action and Milestones (SSP/POAM) Reviews
- a) Within thirty (30) days of contract award, the Contractor shall make its System Security Plan(s) (SSP(s)) for its covered contractor information system(s) available for review by the Government at the contractor s facility. The SSP(s) shall implement the security requirements in Defense Federal Acquisition Regulation Supplement (DFARS) clause 252.204-7012, which is included in this contract. The Contractor shall fully cooperate in the Government s review of the SSPs at the Contractor s facility.
- b) If the Government determines that the SSP(s) does not adequately implement the requirements of DFARS clause 252.204-7012 then the Government shall notify the Contractor of each identified deficiency. The Contractor shall correct any identified deficiencies within thirty (30) days of notification by the Government. The contracting officer may provide for a correction period longer than thirty (30) days and, in such a case, may require the Contractor to submit a plan of action and milestones (POAM) for the correction of the identified deficiencies. The Contractor shall immediately notify the contracting officer of any failure or anticipated failure to meet a milestone in such a POAM.
- c) Upon the conclusion of the correction period, the Government may conduct a follow-on review of the SSP(s) at the Contractor's facilities. The Government may continue to conduct follow-on reviews until the Government determines that the Contractor has corrected all identified deficiencies in the SSP(s).
- d) The Government may, in its sole discretion, conduct subsequent reviews at the Contractor's site to verify the information in the SSP(s). The Government will conduct such reviews at least every three (3) years (measured from the date of contract award) and may conduct such reviews at any time upon thirty (30) days' notice to the Contractor.
- 2. Compliance to NIST 800-171
- a) The Contractor shall fully implement the CUI Security Requirements (Requirements) and associated Relevant Security Controls (Controls) in NIST Special Publication 800-171 (Rev. 1) (NIST SP 800-171), or establish a SSP(s) and POA&Ms that varies from NIST 800-171 only in accordance with DFARS clause 252.204-7012(b)(2), for all covered contractor information systems affecting this contract.
- b) Notwithstanding the allowance for such variation, the contractor shall identify in any SSP and POA&M their plans to implement the following, at a minimum:
- (1) Implement Control 3.5.3 (Multi-factor authentication). This means that multi-factor authentication is required for all users, privileged and unprivileged accounts that log into a network. In other words, any system that is not standalone should be required to utilize acceptable multi-factor authentication. For legacy systems and systems that cannot support this requirement, such as CNC

equipment, etc., a combination of physical and logical protections acceptable to the Government may be substituted;

- (2) Implement Control 3.1.5 (least privilege) and associated Controls, and identify practices that the contractor implements to restrict the unnecessary sharing with, or flow of, covered defense information to its subcontractors, suppliers, or vendors based on need-to-know principles;
- (3) Implement Control 3.1.12 (monitoring and control remote access sessions) Require monitoring and controlling of remote access sessions and include mechanisms to audit the sessions and methods.
- (4) Audit user privileges on at least an annual basis;
- (5) Implement:
- i. Control 3.13.11 (FIPS 140-2 validated cryptology or implementation of NSA or NIST approved algorithms (i.e. FIPS 140-2 Annex A: AES or Triple DES) or compensating controls as documented in a SSP and POAM); and,
- ii. NIST Cryptographic Algorithm Validation Program (CAVP) (see https://csrc.nist.gov/projects/cryptographic-algorithm-validation-program);
- (6) Implement Control 3.13.16 (Protect the confidentiality of CUI at rest) or provide a POAM for implementation which shall be evaluated by the Navy for risk acceptance.
- (7) Implement Control 3.1.19 (encrypt CUI on mobile devices) or provide a plan of action for implementation which can be evaluated by the Government Program Manager for risk to the program.
- 3. Cyber Incident Response:
- a) The Contractor shall, within fifteen (15) days of discovering the cyber incident (inclusive of the 72-hour reporting period), deliver all data used in performance of the contract that the Contractor determines is impacted by the incident and begin assessment of potential warfighter/program impact.
- b) Incident data shall be delivered in accordance with the Department of Defense Cyber Crimes Center (DC3) Instructions for Submitting Media available at <a href="http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...">http://www.acq.osd.mil/dpap/dars/pgi/docs/Instructions\_for\_Submitting\_Me...</a>. In delivery of the incident data, the Contractor shall, to the extent practical, remove contractor-owned information from Government covered defense information.
- c) If the Contractor subsequently identifies any such data not previously delivered to DC3, then the Contractor shall immediately notify the contracting officer in writing and shall deliver the incident data within ten (10) days of identification. In such a case, the Contractor may request a delivery date later than ten (10) days after identification. The contracting officer will approve or disapprove the request after coordination with DC3.

#### 4. Naval Criminal Investigative Service (NCIS) Outreach

The Contractor shall engage with NCIS industry outreach efforts and consider recommendations for hardening of covered contractor information systems affecting DON programs and technologies.

#### 5. NCIS/Industry Monitoring

- a) In the event of a cyber incident or at any time the Government has indication of a vulnerability or potential vulnerability, the Contractor shall cooperate with the Naval Criminal Investigative Service (NCIS), which may include cooperation related to: threat indicators; pre-determined incident information derived from the Contractor's infrastructure systems; and the continuous provision of all Contractor, subcontractor or vendor logs that show network activity, including any additional logs the contractor, subcontractor or vendor agrees to initiate as a result of the cyber incident or notice of actual or potential vulnerability.
- b) If the Government determines that the collection of all logs does not adequately protect its interests, the Contractor and NCIS will work together to implement additional measures, which may include allowing the installation of an appropriate network device that is owned and maintained by NCIS, on the Contractor's information systems or information technology assets. The specific details (e.g., type of device, type of data gathered, monitoring period) regarding the installation of an NCIS network device shall be the subject of a separate agreement negotiated between NCIS and the Contractor. In the alternative, the Contractor may install network sensor capabilities or a network monitoring service, either of which must be reviewed for acceptability by NCIS. Use of this alternative approach shall also be the subject of a separate agreement negotiated between NCIS and the Contractor.
- c) In all cases, the collection or provision of data and any activities associated with this statement of work shall be in accordance with federal, state, and non-US law.

#### 2 DEFINITIONS AND ACRONYMS

#### 2.1 **DEFINITIONS**

BACKBONE TRANSPORT. The communications infrastructure, outside plant cable and electronic equipment, that provides both the physical and logical connection between communications (core and distribution) nodes.

DEFECTIVE SERVICE. A service output that does not meet the standard of performance described within the Performance Specification.

DELIVERABLE. Anything that can be physically delivered but may include non-manufactured things such as meeting minutes or reports.

KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract. Key Personnel are listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

LONG LEAD ITEMS. Long lead Items are defined as those items that take sixty (60) or more calendar days to procure/receive due to complex design, complicated manufacturing process, and/or limited production capacity.

LOCAL TIME. Time at reckoned in a particular region or time zone.

PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.

#### 2.2 ACRONYMS

Acronym	Term
A&A	Assessment and Authorization
AC	Alternating Current
ACD	Automatic Call Distribution
ACAS	Assured Compliance Assessment Solutions
AHJ	Authority Having Jurisdiction
ANACI	Access National Agency Check and Inquiries
AO	Authorizing Official
APL	Approved Product List
AS	Assured Services
ASR	Asset Shipping Report
ATC	Authorization to Connect
ATO	Authorization to Operate
ATS	Automatic Transfer Switch
AWG	American Wire Gauge
B/P/C/S	Base/Post/Camps/Stations
BAN	Base Area Network
BET	Building Entrance Terminal
BoL	Bill of Lading
BOM	Bill of Materials

Acronym	Term
BTI	Base Telephone Infrastructure
CAC	Common Access Card
CAT I	Category I
CAT II	Category II
CAT III	Category III
CCB	Configuration Control Board
CEC	Continuing Education Credits
CEDC	Component Enterprise Data Center
CFR	Code of Federal Regulations
CI	Configuration Item
CLIN	Contract Line Item Number
CM	Configuration Management
CMDB	Configuration Management Database
CMP	Configuration Management Plan
CN	Core Node
CND	Computer Network Defense
CONOPS	Concept of Operations
CONUS	Continental United States (excludes Alaska and Hawaii)
COPP	Certified Output Protection Protocol
COR	Contracting Officer Representative
CoS	Class of Service
COTR	Contracting Officer's Technical Representative
COTS	Commercial-Off-the-Shelf
CPD	Capability Production Document
CRM	Comments Resolution Matrix
CS	Cyber Security
CSM	Cyber Security Manager
CSSA	Customer Service Support Application
CST	Cyber Security Technical
CUI	Controlled Unclassified Information
CWDM	Coarse Wavelength Division Multiplexing
DBID	Defense Biometric Identification
DC	Direct Current
DD1149	Requisition and Invoice Shipping Document (Form DD1149)
DD250	Department of Defense Form 250 (Receiving Report)
DD254	Department of Defense Contract Security Requirement List
DEA	Drug Enforcement Administration
DFARS	Defense Federal Acquisition Regulation Supplement
DISA	Defense Information Systems Agency
DISN	Defense Information Systems Network
DLA-DS	Defense Logistics Agency - Disposition Services
DN	Distribution Node
DoD	Department of Defense
DoDIN	DoD Information Network

Acronym	Term
DoN	Department of the Navy
DSCP	Differentiated Service Code Points
DSX	Digital Signal Cross-Connect
DWDM	Dense Wavelength Division Multiplexing
E911/NG911	Enhanced 911/Next Generation 911
EDP	Engineering Design Package
EFIST	Engineer, Furnish, Install, Secure, Test
EMT	Electrical Metallic Tubing
EOL	End of Life
EOS	End of Service
EPO	Emergency Power Off
ES&D	Enterprise Staging and Deployment
ESL	Enterprise Software License
ESOH	Environmental, Safety and Occupational Health
ETAS	Emergency Technical Assistance Services
EUB	End-user Building
EULA	End User License Agreement
EEVE	Enterprise Engineering and Verification Environment
FAR	Federal Acquisition Regulation
FBI	Federal Bureau of Investigation
FFP	Firm Fixed Price
FISMA	Federal Information Security Management Act
FOUO	For Official Use Only
FSE	Field Service Engineer
FSO	Facility Security Officers
GAT	Government Acceptance Test
GFI	Government Furnished Information
GFP	Government Furnished Property
HIPAA	Health Insurance Portability and Accountability Act
HMX-1	Marine Headquarters Squadron One
HSPD-12	Homeland Security Presidential Directive-12
HVAC	Heating, Ventilating, and Air Conditioning
HW	Hardware
I3A	Installation Information Infrastructure Architecture
I3MP	Installation Information Infrastructure Modernization Program
IAW	In Accordance With
IBC	International Building Code
INFOCON	Information Operations Conditions
iRAPT	Invoice Receipt Acceptance and Property Transfer
ISN	Installation Service Node
ISP	Inside Plant
ISTC	Infrastructure Services Transport & Communications
IT	Information Technology
ITIL	Information Technology Infrastructure Library
1111	information recimology infrastructure Diorary

Acronym	Term
IUID	Item Unique Identification
IVR	Interactive Voice Recognition
JIE	Joint Information Environment
JITC	Joint Interoperability Test Command
JPAS	Joint Personnel Adjudication System
JTR	Joint Travel Regulation
KSA	Key Systems Attributes
LAN	Local Area Network
LCL	Logistic Lifecycle
LCSP	Life-Cycle Sustainment Plan
LOC	Letter of Clarification
LSC	Local Session Controller
LSTDM	Low Speed Time Division Multiplexing
MCCAST v2	Marine Corps Certification and Accreditation Support Tool
MCEN	Marine Corps Enterprise Network
MCCOG	Marine Corps Cyberspace Operation Group
MCSC	Marine Corps Systems Command
MDF	Main Distribution Frames
MPT	Manpower and Training
MOS	Mean Opinion Score
MOS	Military Occupational Specialty
MOSA	Modular Open Systems Approach
MSDS	Material Safety Data Sheet
MUDG	Military Unique Deployment Guide
NACI	National Agency Check with Written Inquiries
NACLC	National Agency Check with Law and Credit
NCA	National Capitol Region
NCES	Net-Centric Enterprise Services
NCI	Network Communications Infrastructure
NDA	Non-disclosure Agreement
NET	New Equipment Training
NIPRNet	Non-classified Internet Protocol Router Network
NIR	Non-Developmental Item Integration Review
NLT	No Later Than
NMCARS	Navy Marine Corps Acquisition Regulation Supplement
NMCI	Navy and Marine Corps Intranet
NOC	Network Operations Center
NSN	National Stock Number
OCI	Organizational Conflict of Interest
OCONUS	Outside Continental United States (includes Alaska and Hawaii)
OEM	Original Equipment Manufacturer
O&M	Operations and Maintenance
ON	Optical Network
OSP	Outside Plant

Acronym	Term
OSPDPR	Outside Plant Design and Performance Requirements
OTS	Optical Transport System
PAC	Post Award Conference
PCA	Physical Configuration Audit
PCR	Project Close-out Review
PDU	Power Distribution Unit
PERSEC Office	Personnel Security Office
PESHE	Programmatic Environment, Safety and Occupational Health,
	and Evaluation
PIA	Privacy Impact Assessment
PIEA	Proprietary Information Exchange Agreement
PII	Personally Identifiable Information
PM	Project Manager
PMM-172	Program Manager Marine, Customer Support and Strategic Sourcing
PMO	Provost Marshall's Office
PM N&I	Program Manager Network and Infrastructure
POA&M	Plan of Actions and Milestones
POC	Point of Contact
PoP	Period of Performance
PP	Protection Profiles
PPSM	Ports, Protocol, Services, and Management
PRS	Performance Requirements Summary
PSI	Personnel Security Investigation
PSR	Project Status Review
PSS	Pre-award Site Survey
PSTN	Public Switched Telephone Network
PUR	Purchaser User Rights
PUR	Product User Rights
QA	Quality Assurance
QAP	Quality Assurance Program
QASP	Quality Assurance Surveillance Plan
QC	Quality Control
QCP	Quality Control Program
QoS	Quality of Service
RMA	Return Material Authorization
RMF	Risk Management Framework
ROADM	Reconfigurable Optical Add/Drop Multiplexers
RTM	Requirements Traceability Matrix
RTS	Real Time Service
RU	Rack Units
S-PR	Secret Periodic Review
SAAR	System Authorization Access Request
SAR	Safety Assessment Report
SAT	System Acceptance Test

Acronym	Term
SCAP	Security Content Automation Protocols
SDN	Software Defined Network
SEP	System Engineering Plan
SI	System Integrator
SIP	Session Initiation Protocol
SIPRNet	Secure Internet Protocol Router Network
SLA	Software License Agreement
SLIN	Sub-Line Item Number
SON	Statement of Need
SONET	Synchronous Optical Network
SPPN	Special Purpose Processing Node
SBPR	SSBI Periodic Reinvestigation
SSBI	Single Scope Background Investigation
SPPR	SSBI Phased Periodic Reinvestigation
SRG	Security Requirement Guides
SRTM	Security Requirement Traceability Matrix
SSR	Site Specific Requirements
STIG	Security Technical Information Guide
SURA	Software User Rights Agreement
SW	Software
T&E	Test and Evaluation
TAS	Technical Assistance Services
TCCB	Team Configuration Control Board
TDM	Time Division Multiplexing
TDP	Technical Data Package
TGB	Telecommunications Grounding Busbar
TIA	Telecommunications Industry Association
TIM	Technical Interchange Meeting
TMGB	Telecommunications Main Grounding Busbar
TMS	Telephony Management Systems
TOS	Terms of Service
TPN	Tactical Processing Node
TRDP	Technical Review Data Package
TPTCTS	Test Procedures, Test Cases, Test Scripts
TRR	Test Readiness Review
TSO	Technical Support Officer
TTP	Tactics, Techniques, and Procedures
UC	Unified Communications
UCR	Unified Capabilities Requirements
UFC	Unified Facilities Criteria
UID	Unique Identification
UII	Unique Item Identifier
UPS	Uninterrupted Power Supply
VLAN	Virtual Local Area Network

Acronym	Term
VLRA	Valve Regulated Lead Acid
VoIP	Voice over Internet Protocol
VRF	Virtual Routing and Forwarding
VSS	Verification Site Survey
WAN	Wide Area Network
WAP	Wireless Access Point
WAWF	Wide Area Work Flow
WLAN	Wireless Local Area Network
WSS	Wave Selectable Switch
XMPP	Extensible Messaging and Presence Protocol

#### 3 GOVERNMENT FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

There will be no Government furnished property for this contract.

#### 4 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES

#### 4.1 GENERAL

The contractor shall furnish all supplies, equipment, facilities, and services required to perform work under this contract that are not identified in Section 3 of this PWS.

Accountability for all hardware and software is the sole responsibility of the contractor until such time as the Government has performed the final acceptance. All Bills of Ladings (BoLs) and shipping documents shall be provided to the Program Office upon receipt of the shipments. The contractor shall provide the Government with an initial Bill of Materials (BOM) and Configuration Management Database (CMDB) at the Technical Interchange Meeting (TIM). The contractor shall provide a final Material and Equipment List or BOM to the Government prior to the start of Cut-Over to ensure proper and accurate property transfer. The Material and Equipment List/BOM will include, at a minimum, the following fields: name, part number, item description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

The contractor shall coordinate shipment of all project equipment listed in the BOM from vendor facility to the installation Distribution Management Office (DMO). The contractor shall mark the equipment in accordance with MIL-STD 130N w/Chg 1 and provide the Government with a completed Asset Shipping Report (ASR) and Form DD1149 for all new equipment delivered under this contract. The DD1149 Form shall contain, at a minimum, an item description, serial number, part number, unit of issue, quantity received, unit price, and total cost. The contractor shall coordinate a turnover schedule with the gaining command and perform a serialized "item by item" inventory with the Supply Officer, or designated representative, and obtain a signature for the delivery of the equipment. As part of the equipment delivery, the contractor shall provide the final Material and Equipment List.

#### 4.2 MATERIALS EQUIPMENT

The contractor shall provide and deploy all materials and equipment required to transport, install, configure, provision, and test the systems and subsystems delivered under the task and delivery orders in accordance with established industry practices and Original Equipment Manufacturer (OEM) methodologies, procedures, and sustainment support activities.

#### 5 SPECIFIC TASKS

#### 5.1 ENGINEER, FURNISH, INSTALL, SECURE, TEST

The contractor shall be responsible to EFIST and make operational a Regional UC System and a Base Area Network (BAN). Each system shall be completely functional with the required programming, interfaces, hardware, software licenses, ancillary equipment, parts, databases, and material for all identified users, services, and requirements. The modernized systems and associated subsystems shall retain all functionality of the existing systems and provide additional functionality to meet the requirements specified in the site-specific requirements specification. To ensure compliance with all requirements, the contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all identified requirements to the Performance Requirements Summary (PRS). The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, and demonstration) to validate the contractor's proposed system design for Government acceptance. All proposed systems configurations will be baselined in accordance with PM N&I, Configuration Management Plan (CMP). The contractor shall repurpose/reutilize existing equipment to the maximum extent practical based on their solution. In addition, the contractor shall EFIST and make operational any ancillary equipment that is required to support this effort such as grounding, firmware, interfaces, patch panels, applications, and similar equipment necessary to deliver a complete and useable solution.

The contractor shall use, to the greatest extent possible, enterprise software licenses for Commercial Off-the-Shelf (COTS) software products available from the Department of the Navy (DoN) Enterprise Software License (ESL) agreements for any software required to support their proposed solution. The DoN ESL Team is aligned under Program Manager, Customer Support and Strategic Sourcing (PMM-172) as a joint Navy and Marine Corps strategic sourcing effort to consolidate, centralize, and streamline the acquisition and management of DoN ESL Agreements. Enterprise software Licenses agreements are available for the following applications: Microsoft, Oracle, Avaya, Symantec/Veritas, ActivIdentity, CISCO SMARTnet, VMware, Solarwinds, and Red Hat. The contractor will coordinate the use of available enterprise software license agreements with the ISTC Program Office after contract award.

The contractor shall be responsible for replacing and correcting any hardware, software, applications, data, configurations, material, or services omitted and/or installed in contractor error without any extra expense or delay to the Government. The contractor shall not be responsible for replacing or correcting existing Government property, software, or facility problems, outside the scope of this PWS.

#### 5.1.1 REGIONAL UNIFIED COMMUNICATIONS

The Regional UC solution shall provide business voice capability to each end-user in those locations where the solution will be deployed. MCB Quantico shall include all Non-classified Internet Protocol Router Network (NIPRNet) users on MCB Quantico, users at Indian Head, MD, Tech Parkway, Quantico Corporate Center, and Barrett Heights in Stafford, VA. The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911)

services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

#### 5.1.2 BASE AREA NETWORK

The BAN consists of a Distribution Layer and an Access Layer. It shall provide for the transportation of voice, video, and data on all locations where the solution will be deployed. There are nine Distribution Nodes (DNs) located on MCB Quantico; Bldgs. 1999, 24204, P719, 3255, 3300, 2076, 26100, 27282, and Russell Knox. These nodes shall be connected with a Dense Wavelength Division Multiplexing (DWDM) system with a Reconfigurable Optical Add/Drop Multiplexer (ROADM) located at each node. All circuits traversing the installation shall use the DWDM. Circuits shall be transitioned off the SONET network. The BAN shall satisfy the requirements of Section 8. The BAN has no external connectivity but gets core connectivity through the Core Nodes (CNs) and the Installation Gateway.

DWDM technology will provide backbone transport connectivity at MCB Quantico. SONET will be removed.

The Contractor shall provide a second design with an "All PON" solution in accordance with section 8 and par 8.3.2.2.

#### 5.1.3 FACILITY/NODE PREPARATIONS

#### **5.1.3.1 POWER SYSTEMS (OPTION)**

The Contractor shall evaluate the exiting AC and DC power systems at all the CN and DN locations as a function of the VSS. The contractor shall propose a solution to provide sufficient power to support the modernized system if the existing systems are deemed insufficient. The proposed solution will consist of an AC Uninterrupted Power Supply (UPS) system that supports the proposed transport and UC solution (3 phase AC UPS are preferred by the Government where applicable) and meets the below requirements.

- The modernized power systems shall have their battery modules in an N+1 configuration.
- The UPS batteries shall be sized to support at least 30 minutes +/- 10% of transitional power. If battery size does not meet the +/-10%, prior Government approval will be needed.
- Lithium-Ion batteries may be substituted for Valve Regulated Lead Acid (VRLA) batteries with prior Government authorization.
- If a component chassis requires DC power, a dedicated rectifier shall be sized and installed within the same rack as that DC chassis to supply DC power unless the contractor determines another method of providing DC power to be more economical.
- The modernized power system shall be equipped with an integrated self-testing Emergency Power Off (EPO) switch.
- The EPO shall be installed IAW the NFPA 75 and the directions of the Local Authority Having Jurisdiction (AHJ).

#### 5.1.3.2 AUXILIARY INFRASTRUCTURE

Auxiliary Infrastructure is comprised of the equipment and components that supplement the primary systems and subsystems provided in the proposed solution. This equipment consists primarily of equipment racks/cabinets, ladder rack, cable tray, re-enforcing structures that house the electronic components installed as a part of the overall modernization effort at each DN. All requirements for auxiliary infrastructure will be verified during the VSS.

#### 5.2 CYBERSECURITY

The contractor, in coordination with the ITSC Project Manager and ITSC Cybersecurity Representative, shall perform all recommended Cybersecurity configuration settings, programming, and configurations of components being provided to ensure compliance with all cyber requirements. At a minimum, the contractor shall provide the following items for Government review: System Configuration Hardware/Software Baseline, Network/Security configurations, Ports, Protocol, Services, and Management (PPSM), system and equipment warranties, software license agreements, software upgrades, and all documentation required to support the Assessment and Authorization (A&A) and Configuration Control Board (CCB) processes. Refer to the Table 2Table 2 - Contract Deliverables Matrix for specific Cybersecurity requirements. All products must be current on the DoDIN Approved Product List (APL). The system shall be designed and implemented with hardware/software that is compliant with and fielded in accordance with the Joint Interoperability Test Command (JITC) approved configuration and Military Unique Deployment Guide (MUDG).

#### 5.2.1 JOINT INTEROPERABILITY TEST COMMAND CERTIFICATION

All proposed UC system hardware and software shall have received JITC certification in accordance with the latest version of the DoDI 8100.4, Unified Capabilities before the system can connect to the DoD Information Network (DoDIN). All proposed system hardware and software shall have a valid JITC certification by the Test Readiness Review (TRR). Connection to the DoDIN will not be authorized until certification is updated and the system is fielded in accordance with the certification letter and applicable JITC deployment guides.

Non-certified or expiring JITC certified systems may be proposed provided a road map and Plan of Actions and Milestones (POA&M) is included in the offeror's proposal indicating that JITC certification will be achieved prior to TRR. Additionally, the offeror shall provide a mitigation plan in the event the proposed system does not achieve the required JITC certifications by TRR.

### 5.2.2 RISK MANAGEMENT FRAMEWORK FOR DoD INFORMATION TECHNOLOGY

Before the proposed hardware and software solution can be connected to the DoDIN via the MCEN, all system hardware, software, and ancillary equipment shall be Cybersecurity compliant IAW the latest version of the technical controls mandated by *DoDI 8510.01*, *Risk Management Framework* (*RMF*) for *DoD Information Technology* (*IT*). In addition, the contractor shall assist the Government by providing, developing, and submitting any necessary system documentation, settings, specifications, and hardening (application of Security Technical Information Guides (STIG), vulnerability scans, testing and installing patches, and vulnerability mitigation) required to update the Government Assessment and Authorization (A&A) package and entry into the Marine Corps

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## 5.2.3 SECURITY AND TECHNICAL IMPLEMENTATION GUIDES, SECURITY REQUIREMENT GUIDES, AND ASSURED COMPLIANCE ASSESSMENT SOLUTIONS SCANS

The Contactor shall apply all applicable Defense Information Systems Agency (DISA) STIGs and Security Requirement Guides (SRGs) to all applicable hardware and software. This shall require the contractor to perform system vulnerability scans, system setting adjustments, software updates/patches, or system hardware/software reconfigurations and hardening. The contractor shall provide applicable STIG checklists; vulnerability scans with the DoD-approved Assured Compliance Assessment Solutions (ACAS) scanning tool, and a POA&M with mitigations and estimated completion dates for all open Cybersecurity findings. ACAS Vulnerability findings are defined as Critical/High = Category (CAT) I, Medium = CAT II, and Low = CAT III. STIG findings are defined as follows: CAT I, CAT II, and CAT III. All CAT I vulnerabilities shall be remediated or mitigated. All CAT II/III vulnerabilities must be remediated if a patch is available and STIG/SRG settings are configured without affecting system functionality. If a patch/STIG/SRG setting is not available or affects operational functionality, an acceptable mitigation (i.e., current processes or measures that reduce vulnerability exposure) must be provided in the POA&M with recommended completion dates.

All ACAS scans will be accomplished using the DISA Field Security Operations (FSO) scan policy Government Furnished Information (GFI) and latest ACAS plugin definitions available on the DoD Patch repository at the time scans are conducted. Contractor shall ensure all ACAS scans are completed with proper credentials and IAW the latest policies and guidelines as defined by DISA and/or the U.S. Marine Corps. All automated and manual STIG/SRG settings shall be applied.

#### 5.3 CONTRACT PROJECT PHASES

The accepted Request for Proposal (RFP) design constitutes the Conceptual Design baseline and is the starting point for every contract project.

This section identifies the Project Phases and Project Milestones/Reviews associated with this contract. These milestones include, but are not limited to, all the system technical reviews and audits ensuring the engineered design satisfies the PRS outlined in Part 8 of the PWS, Site Specific Requirements, and NCI Systems Engineering Plan (SEP). This timeline represents "Tailored Conformance" to meet a Systems Engineering Approach as directed by DoD guidance. The contractor's Contract Schedule shall include, at a minimum, all of the events identified in this section, beginning with Site Task Award, to mitigate potential adverse impacts to cost, performance, and schedule.

The ITSC Contract Notional Timeline depicted in Figure 1 identifies the sequence of events for the contract.

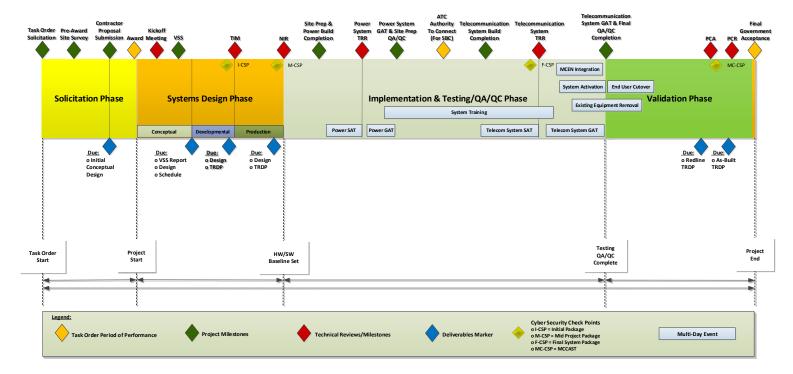


Figure 1 – Notional Timeline

#### 5.3.1 PROJECT MILESTONES AND EVENTS

The Notional Timeline depicted in Figure 1 coincides with the expected Contract events beginning with the Contract Solicitation. Mapping these design stages to ITSC programmatic, Implementation Phases are as follows.

#### 5.3.1.1 CONTRACTOR PROPOSAL SUBMISSION

The contractor shall submit a proposals within 30 calendar days from receiving the Request for Proposal from the Government. The proposal shall contain the contractor's proposed conceptual design and architecture, pricing, materials and equipment list, project plan, and project timeline including all the events identified in the notional timeline (durations, dates, and the proposed period of performance).

#### 5.3.1.2 SYSTEM DESIGN PHASE

The System Design Phase is initiated with the Award, signifying the start of the period of performance. Subsequent to the Award, the Government shall hold a Post Award Kick-off meeting. This Phase shall also include a contractor Verification Site Survey (VSS) to validate assumptions made on the information provided as part of the PWS. Throughout the duration of this Phase, the contractor shall deliver a detail system design and Technical Data Package (TDP) to be reviewed at designated technical reviews.

The contractor shall also deliver Cybersecurity documentation prior to the associated technical review events IAW the timelines identified in <u>Table 2 Table 2</u> - Contract Deliverables Matrix.

**Table 2 – Contract Deliverables Matrix** 

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Table 2 – Contract Deliverables Matrix			
Item Number	Item Title	Due	Deliverable Format
1	Project Schedule	Proposed: fifteen (15) Calendar Days after the start of the VSS Monthly: NLT the last day of every month (Ad hoc Project Schedule Reports may be Requested)	MS Project 2016 and PDF
2	Conceptual (Proposed) Design	Revised: NLT 15 (15) calendar days after the VSS	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF
3	Verification Site Survey Report	NLT fifteen (15) calendar days after the VSS.	VSS Report: Contractor Format (PDF or Microsoft Office Word 2016 or later)
4	Technical Data Package	Developmental: NLT twenty-five (25) calendar days prior to the TIM. Production: NLT twenty-five (25) calendar days prior to the NIR.  Red Line: NLT the completion of Cutover.  As-Built: NLT Twenty-five (25) calendar days prior to the PCR.	Engineering Design Plan: Government-provided Format (PDF or Microsoft Office Word 2016 or later) Drawings: AutoCAD and PDF M&E List: Microsoft Office Excel 2016 or later HW/SW Baseline (CMDB): Microsoft Office Excel 2016 or later
5	RTM	Initial: NLT twenty-five (25) calendar days prior to the TIM. Revised: NLT twenty-five (25) calendar days prior to the NIR. Final: NLT twenty-five (25) calendar days prior to the TRR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)
6	SAT Plan	Initial: NLT twenty-five (25) calendar days prior to the TIM. Revised: NLT twenty-five (25) calendar days prior to the NIR. Final: NLT twenty-five (25) calendar days prior to the TRR.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
7	ACAS Scans Schedule	Initial: NLT twenty-five (25) calendar days prior to the TIM. Final: NLT twenty-five (25) calendar days prior to the NIR.	Contractor Format (PDF and Microsoft Office Project 2016 or later)
8	Cyber Security POA&M	Initial: NLT twenty-five (25) calendar days prior to the TIM. Final: NLT twenty-five (25) calendar days prior to the NIR.	Government provided format (PDF and Microsoft Office Excel 2016 or later)
9	Technical Controls	Initial: NLT twenty-five (25) calendar days prior to the TIM. Revised: NLT twenty-five (25) calendar days prior to the NIR.	Government Provided Format (Microsoft Office Excel 2016 or later)

Item Number	Item Title	Due	Deliverable Format
10	Safety Assessment Report (SAR)	NLT twenty-five (25) calendar days prior to the TIM.	Contractor provided format (PDF and Microsoft Office Excel 2016 or later)
11	Power and Site Prep TPTCTS	Initial: NLT twenty-five (25) calendar days prior to the NIR. Final: NLT twenty-five (25) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
12	Telecommunications TPTCTS	Initial: NLT twenty-five (25) calendar days prior to the NIR. Final: NLT twenty-five (25) calendar days prior to the start of the Test Event.	Government-provided Format (PDF or Microsoft Office Word 2016 or later)
13	Cutover Plan	Initial: NLT twenty-five (25) calendar days prior to the NIR. Final: NLT twenty-five (25) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
14	IUID Plan	Initial: NLT twenty-five (25) calendar days prior to the NIR. Final: NLT twenty-five (25) calendar days prior to the TRR.	Contractor Format (PDF or Microsoft Office Word 2016 or later)
15	STIG/SRG Check List	Initial: NLT twenty-five (25) calendar days prior to the NIR. Revised: NLT sixty (60) calendar days prior to the TRR. Final: NLT twenty-five (25) calendar days prior to the TRR.	Native Format (.ckl) file
16	ACAS Vulnerability Scans	Initial: NLT seventy-five (75) calendar days prior to TRR. Final: NLT twenty-five (25) calendar days prior to TRR.	.nessus File format
17	Completed Power TPTCTS (if Power Option is exercised)	NLT ten (10) calendar days after completion of Power GAT.	Government provided format
18	Completed Telecommunications System TPTCTS	NLT ten (10) calendar days after the Telecommunications System GAT.	Government provided format (Microsoft Office Word 2016 and PDF)
19	Warranty Procedure Guide	NLT twenty-five (25) calendar days prior to the PCA.	Contractor Format (PDF)
20	Installations, Operations and Maintenance, and SW User Manuals	NLT fifteen (15) calendar days prior to the PCA.	Contractor Format (PDF)
21	MCCAST Import Template	Final: NLT fifteen (15) calendar days prior to the NIR.	Native format
22	Asset Shipping Report/DD1149	An ASR and DD1149 shall be provided with each equipment shipment to the Government	Government-provided ASR Format (Microsoft Office Excel 2016 or later)
23	Security Requirement Traceability Matrix (SRTM)	Initial: NLT twenty-five (25) calendar days prior to NIR. Final: NLT twenty-five (25) calendar days prior to TRR.	Format: Government provide format (Excel 2016 or later)
24	PPSM Data	Initial: NLT twenty-five (25) calendar days prior to TIM.	Format Government provide format (Excel 2016 or later)

Item Number	Item Title	Due	Deliverable Format
		Final: NLT twenty-five (25) calendar days prior to NIR.	
25	Security Content Automation Protocol (SCAP) Scans	Initial NLT seventy-five (75) calendar days prior to TRR. Final: NLT twenty-five (25) calendar days prior to the TRR.	Native Format

The System Design Phase consists of three design levels: Conceptual, Developmental, and Production. (Reference Section 5.7.1.1 – Product Drawings and Associated Lists)

Conceptual Design provides the framework for the allocated baseline by defining the system and subsystem architectures and is delivered or established at proposal. The design shall include hardware and software lists, depiction of critical support system interfaces and any underlying services architectures as well as identification of all system CNs, DNs, and EUBs to ensure that the proposed system has an expectation of being operational, feasible, and satisfies the site-specific requirements.

**Developmental Design** describes the integration approach and is used to evaluate and validate that the design meets the required performance. This information is used to produce materiel for test and for the analytical evaluation of the inherent ability of the design approach to attain the required performance. This design level shall include but not limited to any updates associated with the Conceptual Design, all impacted building floor plans (both top and elevation views), wire, fiber, power, and grounding routing details, all rack/cabinet and ladder tray drawings. These design components shall be delivered prior to the Technical Interchange Meeting (TIM) for technical review and adjudication.

**Production Design** is a detailed and complete design that captures any updates to the Conceptual and Developmental Designs and shall include but not limited to all components, recommended spares, and applicable repair parts. The production design shall also include all applicable detailed wiring and cabling schematics. These design components shall be delivered prior to the Non-Developmental Item Integration Review (NIR) for technical review and adjudication.

### 5.3.1.2.1 AWARD KICK-OFF MEETING

The Kick-off meeting shall be a review and discussion of the documents provided in the contractor proposal submission and provide a forum for both the Government and contractor to reach consensus on all project implementation expectations. Government will provide applicable deliverable templates to contractor. The contractor shall deliver their proposed project schedule at the kickoff meeting.

### **5.3.1.2.2 VERIFICATION SITE SURVEY**

The contractor shall proceed to the place of performance to conduct a Verification Site Survey (VSS) within twenty (20) calendar days of Contract Award. The purpose of the VSS is to provide the contractor(s) an opportunity to validate assumptions made on the site information provided in the PWS. Coordination of the VSS visitation shall be facilitated by the ISTC Project Manager, the contractor, and the site TSO. The VSS Report, Revised Conceptual (Proposed) Design, and the Baseline Project Schedule shall be provided to the Government IAW the criteria and timeline identified in Table 2Table 2 - Contract Deliverables Matrix. The VSS Report shall provide an accurate description of the existing conditions and identify any potential discrepancies or changes to the proposed design. The contractor shall submit an updated proposal based off of the VSS results and upon Government review and acceptance, authority to proceed to Developmental Design shall be granted and the Baseline Project Schedule established.

#### 5.3.1.2.3 TECHINCAL INTERCHANGE MEETING

The TIM is an informal meeting that fosters the exchange of ideas through open discussion and participation. The purpose of the TIM is to provide a forum for problem solving and information

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sharing between Government and contractor personnel that encourages cooperation and fosters collaboration in resolving technical and engineering deficiencies and/or discrepancies. TIMs are to be conducted when necessary as determined by the COR/Project Manager. The contractor shall conduct at least one on-site TIM at the place of performance to adjudicate the results of the Government's review of the Developmental Design.

### 5.3.1.2.4 NON-DEVELOPMENTAL ITEM INTEGRATION REVIEW

An NIR is a multi-disciplined product and process assessment to ensure the system under review can proceed into the Implementation & Testing and Quality Assurance (QA)/Quality Control (QC) Phase. This review assesses the TDP artifacts and reviews the Production Design. The contractor shall participate in a Government lead NIR IAW the NCI SEP. The NIR is a formal milestone review requiring Government acceptance. Successful completion of the NIR will establish the product baseline. The contractor shall demonstrate that the Detailed Design satisfies the specifications identified in the Contract Solicitation, outlined in Part 8 of this documents, and the NCI Systems Engineering Plan (SEP)Site Specific Requirements (SSR). The contractor shall present a test and system cutover for the purpose of performing design verification and validation. The contractor shall also prepare and provide a Safety Assessment Report (SAR). The SAR shall identify the contractor's mitigation of any safety and environmental hazards identified in the NCI Programmatic Environment, Safety and Occupational Health, and Evaluation (PESHE).

### 5.3.1.3 IMPLEMENTATION, TESTING, AND QA/QC PHASE

The Implementation, Testing, and QA/QC Phase shall begin with the acceptance of all deliverables associated with the NIR milestone. The contractor shall execute the system build to the accepted Production Design, beginning with Site Preparation and Power System installations, followed by installation and integration of the telecommunications systems components. The contractor shall provide continuous oversite of all subordinate contractors in accordance with all aspects of program management.

#### 5.3.1.3.1 SITE PREPARATION BUILD COMPLETION

This milestone incorporates the procurement and installation of all required system infrastructure, including, but not limited to, system racks, cabinets, and ladder racking. Upon completion of this milestone, the contractor shall ensure the installation complies with all local and regulatory requirements.

### 5.3.1.3.2 SYSTEMS ACCEPTANCE TEST AND GOVERNMENT ACCEPTANCE TEST

Test and Evaluation (T&E) is an integral part of the systems engineering process. System/Subsystem Testing demonstrates the delivered solution fulfills the requirements and specifications of the PWS. Testing shall be performed in two phases, the System Acceptance Test (SAT) and the Government Acceptance Test (GAT). Separate SAT/GAT events will be performed for Telecommunications systems. SAT shall be contractor-performed testing that occurs prior to TRR. The Government will observe the SAT.

It is expected that the contractor shall install and test system/subsystem components without connection to the DoDIN/MCEN. As a result, the contractor may not be able to complete all required system and sub-system testing during SAT. It is expected that systems and subsystems requiring MCEN connection are hardened. The GAT leverages the final SAT documents provided by the SI to

determine testing that demonstrates system-wide functionality of hardened devices. The government will attend any contractor(s) scheduled SAT testing events to ensure test data integrity. GAT will be the final test event and all connections and interfaces shall be established during this time.

#### 5.3.1.3.3 TEST READINESS REVIEW

The TRR is a significant multi-disciplined technical review designed to ensure the system and/or subsystem under review is ready for Government testing and functions as the transition from SAT to GAT. The TRR assesses test objectives, test methods and procedures, test scope, and safety to confirm required test resources have been properly identified, made available, and coordinated to support planned tests. The TRR verifies the traceability of planned tests through the use of the RTM. It determines the completeness of test procedures and their compliance with test plan descriptions. The TRR also assesses the system under review for development maturity, cost/schedule effectiveness, and risk to determine readiness to proceed to formal testing.

### 5.3.1.4 VALIDATION PHASE

The Implementation Phase shall transition into the Validation Phase upon successful completion of the Telecommunications System GAT and the final QA/QC inspection.

#### **5.3.1.4.1 CUTOVER**

Cutover is the process of migrating existing circuits and end-user services (voice and data) from legacy systems to the newly installed contractor-provided solution. The contractor shall develop a detailed Cutover Plan to support cutover. The Cutover Plan shall provide the approach, schedule, required Government resources, system outages, and fall back plan.

The contractor shall be responsible for performing a flash cutover, unless deemed impractical due to technical, logistical, or base operational constraints, of all services identified in this document. This shall include capturing and validating existing system's database and subscriber information, transferring information, configuring, and deploying the new system to the end-user device. This information includes, but is not limited to, dial plans, subscriber features and capabilities, call lists, settings and configurations. The cutover shall also include hardware and patching of existing subscribers and services inside the closets and at the end user locations. Cutover methods utilized shall minimize service-affecting outages and be described in detail in the Cutover Plan.

The contractor shall conduct service-affecting cutovers of systems outside normal duty hours with minimal downtime as designated by the TSO. During system cutover, the contractor shall establish, staff, manage and support all on-site help desk functions and responsibilities to include customer calls, creating trouble tickets and logs, tracking reports for active and closed tickets, answering subscriber questions and correcting deficiencies, and coordinating with the TSO to prioritize trouble tickets. An electronic and paper copy of the Trouble Ticket Log shall be maintained on-site for Government inspection during cutover. The Trouble Ticket Log shall be turned over to the Government after resolution and closure of all Trouble Tickets directly attributable to the contractor's solution.

### 5.3.1.4.2 SYSTEM OUTAGES

Any work requiring system downtime shall occur during off-duty/weekend hours, be kept to a minimum, and not occur without specific acceptance from ITSC Project Manager and the site TSO.

The contractor shall submit a system recovery/fallback plan for review and acceptance for all scheduled outage. The system recovery/fallback plan shall be provided as part of the Cutover Plan.

### 5.3.1.4.3 REMOVAL OF EXISTING EQUIPMENT

Upon Government approval, the contractor shall decommission, disconnect, de-install, dismantle, and remove all displaced core switching equipment. The contractor shall remove any system anchors, brackets, and racks protruding from the floors and/or walls. The contractor shall ensure that no active service is disrupted during the switch or equipment removal and shall be liable for any costs incurred by the Government to restore disrupted service. All replaced core switching equipment shall be removed and properly disposed of by the contractor.

Existing equipment identify by the Government for reuse and redistribution will be turned over to the Program Office upon removal. Disposal of all equipment shall be coordinated through the TSO and the Installation's Defense Logistics Agency - Disposition Services (DLA-DS) to ensure compliance with Government disposal procedures. The contractor shall provide the Government with a document identifying all replaced core switching equipment. At a minimum, the following fields shall be included: name, part number, description, national stock number (if applicable), quantity, unit cost, unique item identifier, unit of measure, accountable contract number, and location (i.e., building and rack number and elevation).

### 5.3.1.4.4 PHYSICAL CONFIGURATION AUDIT

The Physical Configuration Audit (PCA) shall be conducted to determine conformance of the as built configuration to the product baseline with the TDP. The PCA shall be a joint audit conducted by the contractor and Government. The results of the audit shall be documented by the contractor and adjudicated by the Government before Project Closeout Review (PCR) for inclusion in the As-built TDP.

### 5.3.1.4.5 PROJECT CLOSEOUT REVIEW

The Project Closeout Review (PCR) shall be conducted to verify all project requirements have been satisfied, all deliverables have been submitted to the Government, and all Government administrative actions have been completed.

#### 5.4 PROJECT ADMINISTRATION/MANAGEMENT

### 5.4.1 PROJECT PLAN

The contractor shall establish, deliver, and ensure that a Project Plan remains in effect throughout the project period of performance. At a minimum, the Project Plan shall focus on and align with the Project Schedule. The Project Plan should address areas such as Safety, Configuration Management, and Risk Management. The Project Plan shall clearly demonstrate an understanding of the project timeline and associated milestones for the project and how the contractor plans to satisfy the requirements of the PWS. The Project Plan shall address a management approach and highlight actions that will be taken to mitigate risk to cost, schedule, and performance, highlight any possible positive or negative impacts, and provide details on the process to deal with unforeseen site conditions, schedule slips, or other problems of program risks. The Plan shall describe the contractor's approach to Resource Management and shall identify the project team.

### 5.4.2 PROJECT SCHEDULE

The contractor shall deliver and maintain an accurate and up-to-date project schedule that accurately reflects the current status of the project progress and resources. To ensure proper management and accuracy of the project schedule, the contractor shall coordinate and consult with relevant stakeholders throughout the course of the project. The project schedule shall include all significant events, detailing each sequence of work that should be completed, identify major milestones and tasks from start to completion of the project, as well as include all critical path events. At a minimum, the project schedule shall identify the following columns: Start, Finish, Baseline Start, Baseline Finish, Duration, and Percent Complete for each task, to include the associated task paths (successors, predecessors, etc.). The contractor shall deliver the proposed Project Schedule within twenty (20) calendar days after the start of the VSS. The Government will then have fifteen (15) calendar days to review and coordinate with the contractor any necessary corrections and updates in order to establish a baseline schedule. The accepted project schedule will then become the baseline and will not change throughout the duration of the project, except in the event of contract modifications that impact the project schedule (scope increase/decrease, etc.).

The contractor shall reference and adhere to the guidance in the NCI Schedule Management Plan.

### 5.4.3 MEETINGS

The contractor shall plan, host, attend, coordinate, support, and conduct meetings, formal reviews, conferences, and audits required during the period of performance of this contract. Meetings shall be conducted at either Government or contractor facilities, or via conference call/video teleconference. The contractor shall prepare agendas and meeting presentation materials for each meeting. The contractor shall also provide minutes and reports following each meeting. The minutes must include a summary of all action items, dates assigned, responsible parties, and estimated completion dates of testing.

### 5.4.3.1 PROJECT STATUS REVIEW MEETINGS

The contractor shall plan, host, coordinate, and conduct a Project Status Review (PSR) each week throughout the period of performance for the purpose of reviewing and updating the Government on the current status of the project unless otherwise noted by the Government Project Manager. To support the administration and management of the Weekly PSR, the contractor will provide a Meeting

Agenda, Action Items List, and Project Schedule two (2) calendar days prior to the execution of the Weekly PSR. In addition, the contractor shall provide meeting minutes NLT two (2) calendar days after the PSR.

The Meeting Agenda will address, at a minimum, the following areas of concern:

- 1. Introductions/Documentation of Attendance
- 2. Summary of Week's Activities
  - a. Issues encountered and resolutions taken to address
  - b. Issues encountered and still unresolved
  - c. Completed activities for the week
- 3. Activities Planned for the following week
- 4. Overall Project Status Review
- 5. Action Item/Register Review
- 6. Review Deliverables Status
- 7. Review any changes to the TDP and Design Drawings (Redline Drawings)
- 8. Materials Status
  - a. Discuss preformed Quality Reviews and the results
- 9. Coordination Resolution of any identified deficiencies
- 10. Discussion of Upcoming Significant Events; possible issues and mitigations (as needed)
- 11. Project Schedule Review relative to the Baseline Project Schedule for thirty (30) calendar days before and thirty (30) calendar days after the PSR
- 12. Coordinate any staffing updates to the project team(s)
- 13. Additional Questions/Open Forum
- 14. Meeting Summary/Assigned Action Item Review.

An Action Item List shall be maintained and delivered as part of the contractor's weekly progress. Closed action items shall only be presented one time. The Action Item List shall contain the following tabs at a minimum:

- 1. Meeting Attendees
- 2. General
- 3. Site Prep
- 4. Data

- 5. Voice
- 6. Schedule Review
- 7. Deliverable Review
- 8. Closed
- 9. Risk Log
- 10. Personnel
- 11. Shipping
- 12. Damage Incident Log
- 13. Stakeholder Contact Info
- 14. Risks Matrix

### 5.4.4 QUALITY CONTROL

The contractor shall develop and maintain an effective quality control program to ensure services are performed in accordance with this PWS. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor's quality control program is the means by which he assures himself that his work complies with the requirement of the contract. The contractor shall provide a written Quality Control Plan (QCP) with the IDIQ proposal. Any changes arising from this effort will be incorporated into any subsequent award. Post-award changes to the QCP shall be submitted to the Contracting Officer and COR within five (5) calendar days of the affected change. The Contracting Officer will provide written acceptance of any proposed changes after delivery of the revised QCP. In addition, the contractor shall incorporate the following minimum elements into the QCP.

- Definition of contractor quality control management lines of responsibility
- Quality Control Management System Process
- Internal Design Review/Change Control Process
- Internal Document Control Process
- Process for Testing
- Process for the execution of Corrective Actions
- Process for maintaining Quality Assurance records throughout the project lifecycle
- Process for performing random internal Quality Control audits.

### 5.4.4.1 QUALITY ASSURANCE

The Government will evaluate the contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan (QASP). This plan is primarily focused on what the Government must do to ensure that the contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied, the frequency of surveillance, and the minimum acceptable quality levels. The contractor shall provide an assessment detailing their conformance to both the technical and programmatic management of the contract.

#### 5.5 LOGISTICS SUPPORT

The contractor shall provide dedicated logistic support to plan and coordinate efforts that integrate logistics and life cycle support considerations into the design of the system. The effort shall be conducted as an integral part of the development, integration, and test processes to define the range and depth of the required support, to develop supportability data products, and to address all applicable elements of logistics.

### 5.5.1 LOGISTICS MANAGEMENT

A joint Government/contractor coordination shall be established to monitor the status of the program implementation. The coordination will be conducted to address logistic matters, schedules, warranty, and PWS performance. The Government will oversee and monitor the contractor's implementation of applicable logistics elements during the project period of performance and throughout the warranty period. The Government has the right to request status of what's in place in and in storage at any time during the contract.

### 5.5.2 ITEM UNIQUE IDENTIFICATION

The contractor will develop an Item Unique Identification (IUID) Plan and implement specific IUID markings, in accordance with Defense Federal Acquisition Regulation Supplement (DFARS) 252.211-7003, DFARS 252.246-7001, DFARS 252.246-7006, DFARS 252.245-7001, SECNAVINST 4440.34, and MIL-STD-130N w/Chg 1.

All spare parts, secondary repairable items, and consumables that exceed \$5,000 and Government selected items under \$5,000 will be marked with the item IUID prior to delivery to the Government.

The IUID marking shall be incorporated into existing data plates when possible. Bar coding and the two dimensional IUID data matrix shall be machine-readable with common optical scanning devices and be accompanied by the corresponding human readable markings when practical. All 2D data labels shall be permanently affixed and shall ensure readability when equipment is installed for operational use. The IUID plan shall also describe the marking process and identify marking locations for each item identified. The contractor will identify the location of approved IUID markings within all drawings.

The contractor will load all IUID data into the DoD IUID Registry NLT fifteen (15) calendar days after completion of the PCA. Additionally, the contractor shall load all serial items to include IUID data into invoice Receipt Acceptance and Property Transfer (iRAPT) formally known as Wide Area Work Flow (WAWF). The contractor will provide an IUID Marking Activity and Verification Report for each system and spares delivered to the Government. The IUID Marking Activity and Verification Report will include a listing of all IUID assigned numbers by Contract Line Item Number (CLIN), Sub-Line Item Number (SLIN), or Exhibit Item and contain the model number, part number, serial number (if applicable), and parent/child relationship.

### 5.5.3 PARENT END ITEM DATA PLATE INFORMATION

The contractor will use MILSTD 130N w/Chg 1, Table IV (UII Construct 1 or 2) and Figure 1 of MIL-STD-130N as a guide when developing the ITSC data plate. The Parent End Item 2D matrix shall contain human and machine-readable markings and shall be no less than 1 cm wide and no less than 40 percent contrast. The data plate must be located in an area that is readable when

equipment is installed. The machine readable information (MRI) marking shall represent the below encoded data elements: Nomenclature

- 1. NSN (if available)
- 2. Design Activity: (MFR ID Cage Code)
- 3. Serial Number
- 4. Government Ownership Designation: U.S. Property
- 5. Contract Number
- 6. Two-dimensional IUID data matrix
- 7. Unique Item Identifier (UII).

The minimum human-readable data plate information for ISTC Parent End Item is listed below:

- 1. OEM part number
- 2. OEM Cage code
- 3. Serial number

The data plate format example is listed below:



### 5.5.3.1 SUB ASSEMBLY DATA PLATE INFORMATION

The contractor will use MILSTD 130N w/Chg 1, Table IV (UII Contruct 1 or 2) and Figure 1 of MILSTD-130N as a guide when developing the ISTC sub-assembly data plate. The Sub-Assembly 2D matrix shall contain human and machine-readable marking in accordance with par 5.5.3.

### 5.5.4 WARRANTY

The contractor shall provide a full, unlimited two-year warranty for all contractor provided hardware/software, materials, and workmanship. The warranty shall begin immediately upon Final Government Acceptance of all items delivered under this contract.

The contractor shall establish and maintain a warranty performance system that identifies and documents all items to be warranted under this contract. Each item warranted shall be indexed and identified by serial number, model number, part number, Unique Identification (UID), warranty period, Original Equipment Manufacturer (OEM), and date of acceptance by the Government. All pertinent data required for the Government to pursue warranty provisions, remedy, and relief for each item shall be provided to the Government in the form of a Warranty Procedures Guide and shall be maintained by the contractor for the duration of the warranty period. All warranty claims and transactions shall be documented and made available for Government review upon request or during

scheduled meetings and/or reviews throughout the life of all warranted items used in all production phases of the ITSC Program.

All costs for shipping and handling for warranted items from and to the field activity are the responsibility of the contractor. The warranty period will cover all hardware, software/firmware, materials, installation services, applicable Software (SW)/Cyber Security (CS) updates, and workmanship provided for the overall system design solution. Hardware/Equipment warranty will include repair and return services for all hardware/equipment replacement that will be configured with software/firmware and ready to install upon receipt.

### 5.5.5 ENVIRONMENTAL SAFETY AND HEALTH

### 5.5.5.1 SYSTEMS SAFETY

The contractor shall identify all hazardous material associated to the newly installed equipment and deliver the applicable Material Safety Data Sheet (MSDS) to the Government. The contractor shall identify and evaluate safety and health hazards and define risk levels that manage the probability and severity of all hazards associated with development, use, and disposal of the system in accordance with MIL-STD-882D. Residual risks will be evaluated by the Government in accordance with Tables A-I through A-IV of MIL-STD-882D and reviewed for acceptance or further risk mitigation action IAW the PESHE.

# 5.6 GREY MARKET ITEMS, LICENSE TRANSFERABILITY, AND END USER TERMS AND CONDITIONS

In order to minimize the risk of the Government purchasing counterfeit products or unauthorized secondary market equipment, which would not be supported by the OEM, and to ensure that the Government purchases only equipment that is genuine (i.e., not counterfeit), authorized (e.g., not gray market, includes appropriate licenses, etc.), and supported (e.g., warranty and support services) by the OEM, when it submitted its proposal, the contractor, for:

Hardware: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of the proposal and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor warrants that all products provided under this contract are new. By submitting any proposal under this contract, contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of contract award. Contractor agrees that it will provide a list of serial numbers for any hardware provided or installed. Failure to provide this information may result in delays to acceptance and payment. The Government will use this information to confirm with the Manufacturer or OEM that the hardware is (1) genuine (not counterfeit) and (2) authorized hardware that has been sourced and provided in accordance with the Manufacturer's applicable policies (e.g., not gray market or diverted). If the Manufacturer indicates that the hardware meets these two requirements, the Government will notify the contractor. If the Manufacturer indicates the hardware does not meet these two requirements, the Government may reject the hardware, revoke acceptance, or pursue any other available and appropriate remedies under the contract.

Software: Certifies that it is a Manufacturer Authorized Partner/Reseller as of the date of award and that it continues to have the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, to the extent required by the applicable PWS, and in accordance with the applicable Manufacturer certification/specialization requirements. Unless otherwise specified, contractor shall warrant that all products are new, or, in the case of downloadable software, that all software is sourced from the OEM or Authorized Reseller. By submitting its proposal contractor confirms that it has sourced all Manufacturer products it will provide from Manufacturer or through Manufacturer Authorized Partners only, in accordance with Manufacturer's applicable policies in effect at the time of this contract. Contractor shall certify that it has notified the software Licensor that the United States Marine Corps (Buyer) will be the Licensee. Contractor shall have provided, with any proposal, a copy of the End User license Agreement (EULA), Terms of Service (TOS), or other similar legal instrument or agreement and warrants that all Manufacturer software is or will be licensed originally to Buyer as the original Licensee authorized to use the Manufacturer Software. Note the provisions of FAR 52.212-4(u) apply.

<u>Maintenance</u>: If, during performance of any maintenance required under this contract, the contractor provides replacement hardware or software, then the above Hardware, Software, or both requirements, including all required certification and compliance requirements, apply. The contractor shall ensure that the Government shall have full rights and entitlements to any software maintenance procured under this contract for software for which it has been identified as the original licensee or for which a license is subsequently transferred to the Government.

<u>Hardware, Software, and/or Maintenance</u>: If the contractor is not a Manufacturer Authorized Partner as of the date of the submission of its proposal then, as applicable, contractor shall submit with its proposal a document, from the Manufacturer, that identifies the Vendor by name and states the following:

- (1) That the products proposed (including hardware, software, and/or support services) are genuine (i.e., not counterfeit and not unauthorized secondary market/gray market products) (note: all items, including part numbers where applicable, shall be listed in the document);
- (2) That contractor has the certification/specialization level required by the Manufacturer to support both the product sale and product pricing, in accordance with the applicable Manufacturer certification/specialization requirements;
- (3) That contractor will be able to receive from Manufacturer, and that Manufacturer will not deny, the support services required to support the product(s);
- (4) That contractor has the authority to transfer to the Government all appropriate software licenses associated with the product(s) at no additional cost to the Government; and
- (5) That Manufacturer will not deny required warranty support for the product(s).

The Government's remedies for the contractor's failure to provide conforming products or services consistent with the above requirements are detailed in FAR 52.212-4, with emphasis on paragraphs (a), (m), and (u).

This contract contains the clauses, terms, and conditions acceptable to the Government. Any hardware, software, or maintenance provided under this contract that contains conflicting terms or conditions, including but not limited to an EULA, Software License Agreement (SLA), Purchaser

User Rights (PUR), Product User Rights (PUR), Software User Rights Agreement (SURA), Support Agreement, Maintenance Agreement, or any other vendor or OEM-specific agreements regardless of how titled or described, may be considered unacceptable. The contractor is on notice that if they choose to submit a document containing terms and conditions, they are required to demonstrate that those terms and conditions do not conflict with, or differ from, this contract's terms and conditions, as well as any statute or regulation (e.g., FAR and DFARS). The contractor must provide the Government with an opportunity to review, modify, and approve any relevant EULA, SLA, SURA, PUR, or any other similar OEM-specific agreement, related to items procured under this contract for which the Government will be the licensee or will otherwise take title to. Compliance with this section is a component of technical acceptability for any proposal and for final project acceptance. Vendor-specific or OEM-specific terms and conditions that conflict with statutory or regulatory requirements, or are otherwise disadvantageous to the Government as noted above, may be determined unacceptable.

### 5.7 DELIVERABLES

### 5.7.1 TECHNICAL DATA PACKAGE

The contractor shall develop a TDP that contains Engineering Design Plan (EDP), design specifications, and drawings describing and depicting the solution and configuration of all systems and subsystems delivered in support of MCB Quantico's Contract. The review and acceptance process for all design specifications and drawings include a Conceptual Design data package, Developmental Design data package, Production Design data package, Redlines Drawings and As-Built Drawing package. The format for the TDP will be provided to the contractor by the Government at the Contract Kickoff meeting. The TDP shall consist of the Engineering Design Plan, Engineering Design Drawings, Systems Configuration Hardware/Software Baseline (CMDB File), and Materials and Equipment List to include Long Lead Items List. All increments of the TDP shall be delivered in accordance with the timelines identified in Figure 1 and the criteria outlined in Part 8, Technical Exhibit 2, Deliverables Schedule and IAW MIL-STD 31000B, ASME Y14.100, ASME Y14.24, ASME Y14.35M, and ASME Y14.34M.

The contractor shall document all design modifications and/or revisions to the accepted Production Design Data TDP via an ECP IAW the CMP. The ECP shall include updated the Red-line Engineering Design Package that accurately depicts the proposed engineering change. Revisions to the Redline drawings shall be provided every thirty (30) calendar days and previous drawing revisions implemented to produce an updated version. The Redline TDP will be used to perform the Physical Configuration Audit (PCA). Any changes to the redlined drawings and/or CMDB file will be recorded during the PCA and documented in the As-built TDP. The contractor shall provide the As-built TDP at the completion of the project at the Project Closeout Review (PCR) and incorporate all design changes and modifications performed during the implementation.

The contractor shall deliver a Draft CMDB File along with all other required artifacts of the TDP IAW Figure 1 - Contract Notional Timeline as part of the Technical Review Data Package for the Technical Interchange Meeting (TIM), that contains all relevant information about the hardware and software/firmware components provided in the accepted engineering design and the relationship between those components. The contractor shall deliver the Final CMDB file along with all other required artifacts of the TDP as part of the TRDP for the NIR. The CMDB provides an organized view of configuration data and a means of examining that data from multiple perspectives. The

CMDB File shall identify all Configuration Items (CIs) delivered under this contract and the associated information and the interface between system components.

As part of the Materials and Equipment List, the contractor shall provide the OEM recommended minimum essential spare parts for systems provided under this PWS in order to alleviate system downtime in the event of a critical hardware failure. The minimum essential spares shall be identified separately in the Materials and Equipment List. The contractor shall restock any spare parts utilized during the modernization effort and warranty period.

#### 5.7.1.1 PRODUCT DRAWINGS AND ASSOCIATED LISTS

The contractor shall develop and deliver a TDP with the associated lists and artifacts describing and detailing the installation and configuration of all systems and subsystems delivered in this contract. This process may require the revision and update of existing drawings, and/or development of new drawings to meet the requirements of TDP drawings and associated lists. Only FINAL versions of the Conceptual, Developmental, Production, Redline, and As-Built data packages will be considered for acceptance by the government and represent fulfillment of the deliverable requirements. Existing, revised, new product drawings, and associated lists shall be used as the engineering data for procuring, controlling, using materials, parts, and assemblies whether produced in-house or supplied by the contractor. The drawings shall be used for the manufacture, assembly, provisioning, inspection, testing, and Configuration Management (CM) of the materials, parts, modules, subassemblies, assemblies, and product baseline of the hardware and software delivered in this contract. The TDP and associated lists shall not carry any proprietary markings. The contractor shall provide the necessary design, engineering, manufacturing, and quality assurance requirements necessary to enable the procurement or manufacture of an interchangeable item that duplicate the physical and performance characteristics of the original product. This must be accomplished without any additional design engineering effort or recourse to the original design activity.

- 1. The contractor shall comply with MIL-STD-3100B, "Technical Data Packages".
- 2. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 3. The contractor shall comply with DoDI 5230.24 and DoDM 52000.01-V4 to apply proper Document Marking to the drawing package.
- 4. The contractor shall comply with the ASME Y14 Standards and lessons learned to improve the use of the Title Block, Revision Block, Sheet Numbering, and add Parts Lists and a Master Parts List Drawing Type.
- 5. The contractor shall comply with Installation Design Plan (IDP) drawing codes. (shown in <u>Table 3 Table 3</u>).

Table 3 – Engineering Design Drawing List

IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE
DT	DT	Drawing Tree	D, P, RL, AB
000	000	Functional Interface Diagram (Architecture Drawings)	D, P, RL, AB
010	000	Site Master Index	D

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IDP DRAWING CODE	ASME CODE	DRAWING TYPE NAME	TDP STAGE
020	200	Installation Master Drawing	D, P, RL, AB
022	100	Master Parts List	D, P, RL, AB
023		Technical Data Summary	D, P, RL, AB
040	400	Floor Plans and Elevations	D, P, RL, AB
050	400	Antenna Layouts and Elevations	D, P, RL, AB
060	500	Simplified Block Diagrams	D, P, RL, AB
070	500	Cable Block Diagrams	D, P, RL, AB
090		Cross Connect Records	P, RL, AB
100		Distribution Frame Layout	D, P, RL, AB
110	600	Circuit Diagrams	D, P, RL, AB
120	600	Labeling Details	P, RL, AB
130	600	Patch Panel Layouts	P, RL, AB
140		Power Distribution	D, P, RL, AB
160	300	Cable Routing Layouts	D, P, RL, AB
171	700	Mechanical Assembly and Mounting Details	D, P, RL, AB
180	800	Miscellaneous Installation Details	D, P, RL, AB
190		Miscellaneous System Configuration Details	D, P, RL, AB
LEGEND			
C-Conceptual, D-Developmental, P-Production, RL- Red Line, AB-As Built			

### 5.7.2 SYSTEMS ACCEPTANCE TEST PLAN

The contactor shall prepare a Systems Acceptance Test (SAT) Plan that encompasses all system and sub-system test activities planned for each system. The following areas shall be emphasized in the SAT Plan: Test Event, Purpose of the Test, Date of Test (Start and End), Location of the Test, Need for Government Test Support, Schedule of Individual Test Events, and Test Procedures.

### 5.7.3 TEST PROCEDURES, TEST CASES, TEST SCRIPTS

The Test Procedures, Test Cases, Test Scripts (TPTCTS) aligns with the SAT and GAT Plans; identify how each system is integrated, tested, and meets the specified system requirement. The TPTCTS shall include the following: Test Event; Test Diagram; Purpose of the Test; Test Entrance Criteria; Date of Test (Start and End), Location of the Test; Need for Government Test Support; Met, Not Met, or Met With Exception Criteria; and signature block for the Test Operator and Government Witness. The Contactor shall provide TPTCTSs, as individual appendices to the SAT Plan for each system and sub-system delivered under the PWS. The Test Procedures shall include all test cases and test scripts to demonstrate all system and sub-systems meet the specific requirements of the PWS.

### 5.7.4 REQUIRMENTS TRACEABILITY MATRIX

To ensure compliance with all requirements, the Contractor shall develop and deliver a Requirements Traceability Matrix (RTM) that traces all requirements defined in the PRS and site-specific requirements. The RTM shall allocate components and subsystems and identify the testing method (analysis, inspection, test, demonstration) to validate the contractors proposed system design for Government acceptance.

#### 5.7.5 CUTOVER PLAN

The contractor shall develop a detailed Cutover Plan. The Cutover Plan shall provide the overall plan including the schedule, required Government resources, system outages, and fall back plan. In addition, the plan shall contain the system specific detailed procedures.

The contractor shall develop a detailed Cutover Plan for each system and subsystem. The Cutover Plan shall be system specific and shall include, at a minimum, a sequential list of events, detailed procedures, post-Cutover testing requirements/procedures, scheduled service outages/windows, service priority based cut-sheets, and system recovery/fall back plan. The Cutover Plan including any modifications must be accepted by the Government prior to commencement of cutover. Cutover shall not begin without a Government acceptance of the proposed cutover plan.

#### 6 TRAINING

### 6.1 NEW EQUIPMENT TRAINING

All New Equipment Training (NET) shall be provided by the OEM and/or OEM certified trainers utilizing the Government approved course of instruction. NET shall consist of courses for administrators, operators, and maintainers (when deemed necessary). The contractor shall detail their training plan in their proposal. Where eLearning or web-based courses are involved a remote registry (user name and password) must be provided to the receiving units for access to the OEM courses. The courses shall not be more than eight hours in length each day and will be conducted Monday through Friday during normal business hours. Following completion of NET, Government approved comments received from attendees (Instructor Rating Forms, End of Course Critiques) shall be incorporated into the course to yield an improved product. The training shall be of sufficient depth and shall include "hands-on" time with the system to ensure that personnel are qualified to teach others (train the trainer concept) and to safely perform tasks in the intended operational environment. Training materials shall be provided IAW the requirements in Section 6.1 - Training and Table 4-Table 4 - Training Deliverables Matrix.

**Table 4 – Training Deliverables Matrix** 

Item Number	Item Title	Due	Deliverable Format
1	Training Plan	Initial: NLT twenty-five (25) calendar days prior to the NIR.	Contractor Format (PDF or Microsoft Office Word
		· · ·	
		Final: NLT twenty-five (25) calendar days	2016 or later)
		prior to the start of training.	
2	Training Materials	NLT twenty-five (25) calendar days prior	Contractor Format (PDF or
		to the start of training.	Microsoft Office Word
			2016 or later)
3	Training Material	As required.	Contractor Format
	Updates	_	

#### 6.2 TRAINING PERFORMANCE AND EVALUATION

The ITSC Logistician and Manpower and Training (MPT) Lead will observe and evaluate the first instance of each training session. The contractor shall update the training materials (if applicable) in preparation for the next training event according to the comments received from attendees and MPT Lead's evaluations, recommendations, and comments. After each training event, all evaluation materials (tests, instructor rating form, and end of course critique) will be delivered to the MPT Lead for ongoing training analysis. An attendance roster shall be administered for each class substantiating each day of attendance and contain each student's basic information such as first and last name, grade, and Military Occupational Specialty (MOS) or Job Series. This roster shall also include class title(s), date and location, the name of the instructor, and the instructor's employer.

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#### 6.3 TRAINING MATERIALS SUSTAINMENT

The contractor shall provide any revisions to the training course materials to each student in hard and soft copy. This includes all training material and technical literature required to teach the course (train the trainer concept) which includes but is not limited to instructor lesson plans, student guides, instructional visual aids, and any tests or practical applications with answer guides.

#### 6.4 TRAINING PLAN

The contractor shall prepare and provide a Training Plan to include strategy, methods, and resources to deliver training. This includes training concepts that incorporate course description, learning objectives, conditions, and standards. The Training Plan shall identify delivery methods, media type, anticipated training time, test, and evaluation. The Training Plan shall identify location, frequency, throughput, mitigated safety risks, classroom facilities, and training schedules.

#### 6.5 TRAINING MATERIALS

All training material shall be prepared per MIL-PRF-29612 and the Systems Approach to Training Manual, NAVMC 1553.1. Materials that fall under parameters of Commercial Off-the-Shelf (COTS) or non-developmental items do not necessarily have to be drafted under the specific templates but have to contain the elements within SAT guidelines.

The MPT Lead shall have fifteen (15) calendar days to review the any training materials submitted by the Contractor in the Training Plan, to ensure compliance with MIL-PRF-29612 and SAT Manual (NAVMC 1553.1) guidance and to provide comments and recommendations to the Logistics Lifecycle (LCL) lead.

### 7 MANDATORY COMPLIANCE DOCUMENTS AND STANDARDS

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

The following Compliance Documents and Standards are applicable to the design, implementation, and management of this project. The Contractor is responsible to obtain the most current version and also for ensuring a complete knowledge of the applicable documents listed in this section necessary for the successful execution of this project. If conflicts ae found to exist between the documents, the Contractor shall report any perceived or actual documentation conflict without delay to the Government. The final interpretation of these Compliance Documents and Standards will be the Government.

- 1. Marine Corps Systems Command, Statement of Need (SON) for the Marine Corps Base Telecommunications Infrastructure (BTI), MCB Quantico: Marine Corps Systems Command, 2010.
- 2. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need, MCB Quantico: Marine Corps Systems Command, 2012.
- 3. Marine Corps Systems Command, Letter of Clarification (LOC) to the Marine Corps Base Telecommunications Infrastructure (BTI) Statement of Need (SON), MCB Quantico: Marine Corps Systems Command, 2013.
- 4. Marine Corps Systems Command/PMM-110, BTI Program Protection Plan, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 5. Marine Corps Systems Command/PMM-110, BTI Test Evaluation Strategy, Quantico: Marine Corps Systems Command/PMM-110, 2013.
- 6. USMC UC Implementation Plan v 1.0, Oct 9 2013 Unified Capabilities Implementation Plan.
- 7. MCSC/P IS&I, PMM-110/037-15, Acquisition Decision Memorandum for the Base Telecommunications Infrastructure Program, Quantico: Marine Corps Systems Command, 2015
- 8. Department of the Navy (DoN), Next Generation Enterprise Network Capabilities Production Document, v. 1.5.6, 2012.
- 9. Marine Corps Wide Area Network (WAN) Transport Implementation Plan. Version 1.01 dtd 9 September 2017.
- 10. Department of the Navy, Unified Capabilities Implementation Plan, Washington, DC Department of the Navy, 2015.
- 11. Navy UC Implementation Plan Nov 22, 2013 Unified Capabilities Implementation Plan

- 12. DoN Software Process Improvement Initiative (SPII) Guidebook Department of the Navy Policy for Acquisition of Naval Software Intensive Systems, September 16, 2008.
- 13. Department of Defense, Defense Acquisition Guidebook (DAG).
- 14. Defense Information Systems Agency (DISA) Net-Centric Enterprise Services (NCES).
- 15. Department of Defense/DISA, "JITC UC Document Depot / EMS) Letter of Clarification Template Requirements," 4 May 2016.
- 16. US DoD System Safety Program, 2009.
- 17. DoD Information Enterprise Architecture Information Enterprise Architecture, v1.1, May 2009.
- 18. DoD, Manual For The Operation Of The Joint Capabilities Integration And Development System (JCIDS), 2012.
- 19. DoD Internet Protocol Version 6 (IPv6) Standard Profiles For IPV6 Capable Products Version 6.0 July 2011.
- 20. DoD Federal Acquisition Regulation Supplement (DFARS) 252.211-7003 Item Identification and Valuation.
- 21. DoD/CIO UCF January 2013 Unified Capabilities Framework.
- 22. DoD Procurement Toolbox, 2016.
- 23. Department of Defense Architecture Framework (DoDAF) v2.0.
- 24. Department of Defense/Defense Information Systems Agency Unified Capabilities Framework, Washington: Department of Defense/Defense Information Systems Agency, 2013.
- 25. DoD, Department of Defense Unified Capabilities (UC) Extensible Messaging and Presence Protocol (XMPP) Errata-1.
- 26. DoD, Department of Defense Assured Services (AS) Session Initiation Protocol (SIP).
- 27. DoD Guidance on Protecting Personally Identifiable Information (PII).
- 28. Federal Information Security Management Act (FISMA) of 2002 Standards and guidance for minimum-security requirements for Information Systems.
- 29. Modular Open Systems Approach (MOSA), Version 2.0.
- 30. Security Configuration Guides.
- 31. Strategic Command Directive 527-1 DoD Information Operations Conditions (INFOCON) System Procedures.
- 32. VoIP STIG Version 3, Release 15, VoIP Security Technical Implementation Guide.
- 33. DISA Policy and Guidance.
- 34. DISA, DoD Telecommunications and Defense Switched Network Security Technical Implementation Guide.
- 35. Network Infrastructure STIG Version 8, Release 8.
- 36. The Certificate Issuing and Management Components family of Protection Profiles (PPs).
- 37. Information Technology Infrastructure Library (ITIL) v3 Foundation Procedures, tasks and checklists used by an organization for establishing a minimum level of competency.
- 38. USAISEC OSPDPR Outside Plant Design and Performance Requirements (OSPDPR).

- 39. USAISEC I3A-2010 Technical Criteria for the Installation Information Infrastructure Architecture (I3A).
- 40. International Building Code (IBC 2015).

# 7.1 FEDERAL PUBLICATIONS

Publication	Short Title
NIST SP 800-58	Voice Over IP (VoIP) Security
CNSSI 5000	Guidelines for VoIP Computer Telephony
OSHA 29 CFR 1910	Occupational Safety and Health Standards
OSHA 29 CFR 1910.269	Electric Power Generation, Transmission, and Distribution
OSHA, 29 CFR 1926.50	Medical services and first aid
OSHA 29 CFR 1926.403	Safety and Health Regulations for Construction
OSHA 29 CFR 1298	Occupational Safety and Health Standards, Washington:
	Occupational Safety and Health Administration, 2007

# 7.2 MILITARY UNIQUE STANDARDS

Publication	Short Title
MIL-STD 130- w/CH 1	Identification Marking of U.S. Military Property
MIL-STD-461	Requirements for the Control of Electromagnetic Interference
MIL-STD-464	Electromagnetic Environmental Effects Requirements for Systems
MIL-STD-810_w/CH 1	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-882	Standard Practice for System Safety
MIL-STD-129	Military Marking for Shipment and Storage
MIL-STD-188 124	Grounding Bonding and Shielding
DI-MGMT-81650	Integrated Master Schedule (IMS)
MIL-HDBK-419	Grounding and Bonding
MIL-HDBK-1013/1	Design Guidelines for Physical Security of Facilities

# 7.3 Dod Opnav and marcorsyscom standards and references

Publication	Short Title
ASTM D3951 - 15	Standard Practice for Commercial Packaging
CJCSI 6510.01	Information Assurance (IA) and Support to Computer Network Defense (CND)
CJCSI 6211.02	Defense Information Systems Network (DISN) Responsibilities
CJCSI 6212.01	Interoperability and Supportability of Information Technology and National Security Systems
CJCSI 6215.01	Policy for Department of Defense (DoD)Voice Networks with Real Time Services (RTS)
CJCSI 6130.01	Master Positioning, Navigation, and Timing Plan
DoD 5000.2	Operation of the Defense Acquisition System
DOD 8420.01	Commercial Wireless Local-Area Network (WLAN) Devices, Systems, And Technologies, November 3, 2017
DoDI 8100.04	Unified Capabilities
DoDI 8500.01	Cybersecurity
DoDI 8510.01	Risk Management Framework for Information Technology
DoDI 5000.64	Accountability and Management of DoD Equipment and other Accountable Property
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields
DoDI 3020.26	Department of Defense Headquarters Continuity Plan (U)
DoDI 6055.11	Protecting Personnel from Electromagnetic Fields
DoDI 5400.16	DoD Privacy Impact Assessment (PIA) Guidance
DoDI 4140.67	DoD Counterfeit Prevention Policy
DoDI 4161.02	Accountability and Management of Government Contract Property
DODI 8010.01	Department Of Defense Information Network (DODIN) Transport
DoDI 8320.04	Item Unique Identification Standards for Tangible Personal Property
DoDD 8500.01	Information Assurance, Mission Assurance Category
DoDD 8500.2	Information Assurance Implementation
DoDD 5000.01	The Defense Acquisition System
UCR 2013	Unified Capabilities Requirements 2013 (UCR 2013) w/CH 2
UFC 1-300-08	Criteria for Transfer and Acceptance of DoD Real Property w/CH 2
UFC 3-301-01	Structural Engineering w/CH 3
UFC 3-310-04	Seismic Design of Buildings
UFC 3-501-01	Electrical Engineering

Publication	Short Title
UFC 3-520-05	Stationary Battery Areas w/CH 1
UFC 3-520-01	Interior Electrical Systems
UFC 3-575-01	Lightning and Static Electricity Protection Systems
UFC 3-580-01	Telecommunications Interior Infrastructure Planning and Design
UFC 3-580-10	Navy and Marine Corps Intranet (NMCI) Standard Construction Practices
UFC 3-600-01	Fire Protection Engineering for Facilities Change 1
UFC 4-021-02	Electronic Security Systems
UFC 2000 Article 64	Stationary Lead-Acid Battery Systems
UID Guide Version 2.5	Assuring Valuation, Accountability and Control of Government Property
USAISEC – I3A, I3MP	Fort Detrick Engineering Directorate, Technical Guide for I3A and I3MP Grounding and Bonding
USAISEC – I3MP	Fort Detrick Engineering Directorate, Technical Guide for Installation Information Infrastructure Modernization Program (I3MP)
USAISEC – I3A	Technical Criteria for the Installation Information Infrastructure Architecture (I3A)
USAISEC - SIPRNet	Secret Internet Protocol Router Network (SIPRNet) Technical Implementation Criteria
USAISEC, TR No. AMSEL-IE-IS 08014	Enterprise Systems Engineering Directorate, I3MP Guide for Facilities Requirements of Core Communications Nodes
USAISEC, TR No. AMSEL-IE-TI 09-001-7	United States Army Information Systems Engineering Command (USAISEC) Outside Plant Design and Performance Requirements (OSPDPR)
MARADMIN 639/08	USMC CS Vulnerability Management (CSVM) Program
MCBUL 5239	Marine Corps Certification And Accreditation Program
MCO 5239.1	Marine Corps Information Assurance Program (MCIAP)
MCBUL 5234.15	Marine Corps Enterprise Network Microsoft Computer Operating Systems Directive For Windows 10. Server 2012 and Exchange 2013
NAVMC 5100.1	Marine Corps Operational Safety and Health Program
SECNAVINST 5000.2	Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System

# 7.4 INDUSTRY STANDARDS AND REFERNCES

Publication	Short Title
ANSI/EIA 310	Cabinets, Racks, Panels, and Associated Equipment
ANSI/TIA 606	Administration Standard for Commercial Telecommunications Infrastructure
ANSI/TIA 568.0	Generic Telecommunications Cabling for Customer Premises
ANSI/TIA 606	Administration Standard for Telecommunications Infrastructure
ANSI/TIA 569	Telecommunications Pathways and Spaces
ANSI/TIA 942	Data Center Cabling Standard
ANSI/TIA-568.3	Optical Fiber Cabling Components
ANSI/TIA- 455-133	Measurement of Fiber or Cable Length Using an OTDR
ANSI/TIA/EIA-455-8-2000	Measurement Methods and Test Procedures – Attenuation OTDR
ANSI J-STD -607-C w/CH 1	Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications
ANSI Z535.4	Product Safety Signs and Labels
ANSI/BICSI 002	Data Center Design and Implementation Best Practices
ANSI/HFES 100	Human Factors Engineering of Computer Workstations
ANSI/ISEA Z358.1	American National Standard for Emergency Eyewash and Shower Equipment
ANSI/IEEE 142	Recommended Practices for Grounding of Industrial and Commercial Power Systems
ANSI/IEEE C2	National Electrical Safety Code (NESC)
IEEE 802.3	Standard for Ethernet
IEEE 802.3at	IEEE Standard for Information technology - Local and metropolitan area networks - Specific requirements - Part 3: CSMA/CD Access Method and Physical Layer Specifications Amendment 3: Data Terminal Equipment (DTE) Power via the Media Dependent Interface (MDI) Enhancements
IEEE 802.3af	IEEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications - Data Terminal Equipment (DTE) Power Via Media Dependent Interface (MDI)
IEEE 802.1Q	Virtual Local Area Networks (LANs)
IEEE 802.1X	Port-based Network Access Control (PNAC)
IEEE 802.3ab	1000BASE-T Gigabit Ethernet

Publication	Short Title
IEEE 802.3z	Gigabit Ethernet Over Optical Fiber and Shielded Twisted Pair (STP)
IEEE 802.3ae	10 Gigabit Ethernet (10 GbE)
IEEE 802.1w	Rapid Reconfiguration of Spanning Tree
IEEE 802.1s	Multiple Spanning Trees
IEEE 802.3ba	40/100 Gigabit Ethernet
IEEE RFC7348	Virtual eXtensible Local Area Network (VXLAN)
IEEE 802.11	IEEE Standard for Information Technology - Telecommunications and information exchange between systems Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications
IEEE 1100	IEEE Recommended Practice for Powering and Grounding Electronic Equipment. (IEEE Emerald Book)
IEEE 1106	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications
IEEE 1187	IEEE Recommended Practice for Installation Design and Installation of Valve-Regulated Lead-Acid Storage Batteries for Stationary Applications
IEEE 1188	IEEE Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications
IEEE 1189	IEEE Guide for Selection of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications
IEEE 1220	IEEE Application and Management of the Systems Engineering Process
IEEE 1471	Recommended Practice for Architecture Description of Software Intensive Systems
IEEE 15288.2	Standard for Technical Reviews and Audits on Defense Programs
MIL-STD 31000 Rev.	Technical Data Packages
ASME Y14.100	Engineering Drawing Practices
ASME Y14.24	Types and Applications of Engineering Drawings
ASME Y14.35M	Revision of Engineering Drawings and Associated Documents
ASME Y14.34M	Associated Lists
IETF RFC 2819	Remote Network Monitoring Management Information Base
IETF RFC 3261	SIP: Session Initiation Protocol

Publication	Short Title	
IETF RFC 3410	Introduction and Applicability Statements for Internet-Standard Management Framework	
IETF RFC 3418	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)	
IETF RFC 4346	The Transport Layer Security (TLS) Protocol, Version 1.1	
IETF RFC 5709	OSPFv2 HMAC-SHA Cryptographic Authentication	
IETF RFC 5798	Virtual Router Redundancy Protocol (VRRP) Version 3 for IPv4 and IPv6	
IETF RFC 5905 v4	Network Time Protocol Version 4: Protocol and Algorithms Specification	
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)	
NFPA 1	Fire Code	
NFPA 70	National Electrical Code	
NFPA 70	Standard for Electrical Safety in the Workplace	
NFPA 72	National Fire Alarm and Signaling Code	
NFPA 75	Standard for the Protection of Information Technology Equipment	
NFPA 76	Stationary Lead-Acid Batteries	
NFPA 101	Life Safety Code	
NFPA 110	Standard for Emergency and Standby Power Systems	
NFPA 780	Standard for the Installation of Lightning Protection Systems	
NFPA 2001	Standard on Clean Agent Fire Extinguishing Systems	
GR-513-CORE	Power Requirements in Telecommunications Plants	
GR-1275-CORE	Central Office/Network Environment Equipment Installation/Removal Generic Requirements	
GR 1502-CORE	Central Office/Network Environment Detail Engineering Generic Requirements	
GR-3160-CORE-001	Generic Requirements for Telecommunications Data Center Equipment and Space, Jul 2013	
UL 96	Standard for Installation Requirements for Lightning Protection Systems	
UL 467	Grounding and Bonding Equipment	
UL 497	Standard for Protectors for Paired-Conductor Communications Circuits	
UL 497	Standard for Secondary Protectors for Communications Circuits	
UL 497	Standard for Protectors for Data Communications and Fire- Alarm Circuits	
UL 1449	Standard for Surge Protective Devices	

Publication	Short Title
EIA-625	Requirements for Handling Electrostatic Discharge- Sensitive (ESDS) Device
IFC	International Fire Code
EPA 40 CFR	Protection of Environment: Hazardous Material Inventory and Reporting, Spill Control, Spill Reporting, and Disposal
ISO/IEC/IEEE 8802-15-4	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 15-4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) specifications for low-rate Wireless Personal Area Networks (WPANs)
ITU-T G.655	Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
ITU-TG.709/Y1331	Interfaces for Optical Transport Network.
ITU-TG.798	Characteristics of Optical Transport Network Hierarchy
ITU-TG 872	Architecture of Optical Transport Networks
ITU-TG 873.1	Optical Transport Network Linear Protection.
ITU-G.694.1	Spectral grids for WDM applications: DWDM Frequency Grid
ITU-G.692.2	Amplified multichannel dense wavelength division multiplexing applications with single channel optical interfaces
LPI 175	Standard of Practice for the Design - Installation - Inspection of Lightning Protection Systems

### 8 APPLICABLE PUBLICATIONS (CURRENT EDITIONS)

The following documents apply to this Performance Specification. In the event of conflict between the applicable documents and this PWS, the PWS shall take precedence. All documents cited as compliance documents shall be considered as guidance only. Nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained. Appendix A - MCB Quantico – Site Specific Equipment provides a listing of the MCB Quantico existing nodes and equipment per site.

Appendix	Document/Reference	Purpose
A	Site Specific Equipment	Provides a listing of the MCB Quantico existing nodes and equipment per site.
В	NCI Systems Engineering Plan (SEP)	Describes the Government's systems engineering process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.

Appendix	Document/Reference	Purpose
С	NCI Test and Evaluation Management Plan	Describes the Government's test and evaluation process.  The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
D	PM N&I Configuration Management Plan	Describes the Government's configuration management process. The Contractor is expected to have a similar effort that aligns and integrates with the Government's process.
Е	NCI Risk Management Plan	Describes the Government's risk management process.  The Contractor is expected to have a similar effort that integrates with the Government's risk reporting process.
F	BTI Life-Cycle Sustainment Plan (LCSP)	Describes the Government's sustainment process.
G	BTI Item Unique Identification (IUID) Plan	Describes the Government's equipment accountability requirements and process.
Н	PM N&I Programmatic Environmental, Safety, and Occupational Health Evaluation (PESHE)	Describes the Government's Environmental, Safety, and Occupational Health (ESOH) risk management approach (strategy, processes, and procedures) to include the integration of ESOH considerations in the acquisition and systems engineering processes.
I	Quality Assurance Surveillance Plan (QASP)	Describes the method by which the Government will monitor the Contractor's overall performance. The Contractor is expected to satisfy all the requirements of the contract by leveraging the surveillance procedures and methodologies established the QASP.
J	NCI BAN Reference Architecture	
K	NCI UC Reference Architecture	
L	NCI Network Power Reference Architecture	

### 8.1 GENERAL

The contractor shall develop an engineering design to deliver a turnkey solution that conforms to all the performance requirements specifications in this section of the PWS. The design and operation of the solution is governed by the NGEN Capability Production Document (CPD) and the BTI Statement of Need (SON) and associated Letters of Clarification (LOC). These governing documents include Key Performance Parameters (KPP) which must be maintained throughout the modernization of the communication infrastructure to be performed at MCB Quantico, and are the foundation of the systems design characteristics. Those KPPs are identified in Section 8.1.1. Additional system and subsystem specifications are identified sections 8.2 and 8.3. Specifications governing Site Preparation and Network Power are provided in section 8.4.

#### 8.1.1 SYSTEM-WIDE KEY PERFORMANCE PARAMETERS

Performance Objective	Performance Threshold	Method of Surveillance
KPP-1	Components shall be JITC compliant.	Inspection
KPP-2	The system(s) shall have an operational availability of 99.999%.	Analysis
KPP-3	The system shall have a growth capacity of 25% to support the increase in users without an equipment replacement.	Analysis
KPP-4	Installations with geographically separate Points of Presence (PoP) shall have redundant UC and BAN equipment and services at each CN connected in a split core configuration mirroring the transport boundary.	Analysis

#### 8.2 UNIFIED COMMUNICATIONS SYSTEM

The Regional UC solution shall provide business voice capability to those locations where the solution will be deployed. MCB Quantico shall include all NIPRNet users on MCB Quantico. The Regional UC solution shall support survivability that allows for full failover functionality such that the loss of the UC system at any one nodal location does not result in the loss or degradation of service at that site or any other site where the solution will be deployed. The Regional UC solution shall have a voice mail, voice conferencing, unified messaging, and Telecommunications Management System (TMS) that supports MCB Quantico. The solution shall provide Enhanced 911 (E911)/Next Generation 911 (NG911) services and support local public safety missions using standardized commercial protocols IAW the DoD UCR.

### 8.2.1 VOICE EQUIPMENT INSTALLATION AND CONFIGURATION

Delivery of voice and data services to the end-user shall be provided over a single physical infrastructure connection (port) at the end-user workstation. Physical connection of the end-user devices when using VoIP shall be connected in series via the phone set. Logical connection for voice and data services shall be accomplished via Virtual Local Area Network (VLAN) or Security Group Tags (SGTs).

Each new line module and gateway shall be fully wired to the MDF and equipped with all required common control and power cards, and connected to the assigned Local Session Controllers (LSCs). The contractor shall EFIST and make operational any new cards required to support a mixture of analog. The contractor shall provide a minimum of one analog gateway per DN as required. The contractor shall also provide a solution that supports all the knowledge workers and associated hardware. The contractor shall furnish and install equipment blocks, vertical frames, cables, Digital Cross-Connect (DSX) panels, etc., to terminate the equipped and wired capacity onto the horizontal side of the MDF or cross-connect. The contractor shall coordinate placement of equipment blocks with the TSO. The contractor shall test all endpoints after installation is complete.

### 8.2.2 EQUIPPED SUBSCRIBER PORT CAPACITY

The equipped subscriber port capacity shall be fully licensed, assigned, and activated at the time of cutover. Equipped line cards shall be distributed evenly across all media gateway shelves and line modules to prevent an outage of ports of the same type in the same workspace in the event of hardware

failure. The contractor shall build temporary subscriber test lines of all equipped types on each line card module or drawer for testing equipment dial tone during System Acceptance Test (SAT).

#### 8.2.3 WIRED SUBSCRIBER PORT CAPACITY

The wired subscriber port capacity shall be provided as pre-wired hardware (i.e., shelves, drawers, common control circuit packs, etc.) and have the ability to be activated only through the use of basic switch translations and the installation of subscriber port modules and circuit packs.

### 8.2.4 REPLACEMENT PHONE SETS

The contractor shall provide replacement phone sets at the time of systems cutover. The replacements are provided to support the operations and maintenance of the voice network after Government acceptance. The quantity of replacement phone sets to be delivered shall be determined by the verified end-user requirements.

### 8.2.5 KEY SYSTEMS ATTRIBUTES

### 8.2.5.1 REGIONAL UC SYSTEM

Performance Objective	Performance	Method of Surveillance
UC-1	The Regional UC system shall provide IP and analog voice services to each end-user on all Installations within the region.	Inspection
UC-2	The Regional UC shall provide the ability to call between regional end-users without using the softswitch backbone.	Analysis
UC-3	Voice services include business voice, voice conferencing, voice mail, and unified messaging.	Inspection
UC-4	The UC system shall have a Telecommunications Management System (TMS) that supports all the Installations within the region.	Inspection
UC-5	Support the Differentiated Service Code Points (DSCP) markings to implement QoS/CoS.	Inspection
UC-6	Provide native audio Mean Opinion Score (MOS) of 3.8, at a minimum, IAW the Telecommunications Industry Association (TIA) Telecommunications – IP Telephony Equipment – Voice Quality Recommendations for IP Telephony (TSB-116-A).	Inspection
UC-7	The UC System shall support to the maximum extent possible end-user VoIP services	Inspection

# 8.2.6 MAJOR FUNCTIONAL REQUIREMENT

### 8.2.6.1 LOCAL SESSION CONTROLLER

Performance Objective	Performance	Method of Surveillance
LSC-1	A UC system shall consist of LSCs and Media Gateways as required at each B/P/C/S.	Inspection
LSC-2	LSCs installed at each Installation as defined above shall conform to the requirements for Assured Services Core Session Controller as defined in the UCR 2013 w/Change 2.	Inspection
LSC-3	Each LSC shall interface with the other LSCs in its region in a coordinated cluster to provide full failover capability across Installations.	Inspection
LSC-4	Each LSC shall provide local survivability in the event DISN connectivity is lost.	Inspection
LSC-5	Each LSC shall support local session management when in a disconnected state.	Inspection
LSC-6	Each LSC shall support on Base E911/NG911 routing to the PSAP or ERC, via existing Installation infrastructure.	Inspection

Performance Objective	Performance	Method of Surveillance
LSC-7	The UC systems shall provide both DSN and PSTN Directory Number assignments for each subscriber.	Inspection
LSC-8	Automatic Call Distribution (ACD) shall be provided at the region.	Inspection
LSC-9	Supported Users can utilize softphones through secure VPN from any remote location.	Inspection

### 8.2.6.2 SESSION BORDER CONTROLLER

Performance Objective	Performance	Method of Surveillance
SBC-1	SBCs shall be co-located and configured in a redundancy group.	Inspection

### 8.2.6.3 TELECOMMUNICATIONS MANAGEMENT SYSTEM

Performance Objective	Performance	Method of Surveillance
TMS-1	The TMS will be located at MCB Quantico.	Inspection
TMS-2	The TMS shall have a direct interface to Remedy for asset tracking.	Inspection

### 8.2.6.4 CUSTOMER SERVICE SUPPORT APPLICATION

Performance Objective	Performance	Method of Surveillance
CSSA-1	Customer Service Support Application (CSSA) shall be provided at the region.	Inspection
CSSA-2	CSSA shall provide call routing via Interactive Voice Recognitions (IVR) for management, administration features.	Inspection
CSSA-3	CSSA shall support 400 agents.	Inspection
CSSA-4	CSSA shall have a built in "heat map" to allow scheduling during peak usage vice time of day.	Inspection

#### 8.3 BASE AREA NETWORK

The BAN at MCB Quantico shall be developed in accordance with the reference architecture shown in Figure 2 or Figure 3 and interface with the MCEN Core Switches. The BAN consists of DNs and Edge Access Devices logically connected as depicted in Figure 2 or Figure 3. A DWDM system shall be EFIST'd. They shall provide connectivity between the core nodes and the distribution nodes. Connectivity to the end-user will be accomplished over traditional Ethernet switches and Edge Access Devices or Optical Network Terminals (ONT) located in EUBs. The BAN shall satisfy all the KSA and the Major Functional Requirements identified the following sections.

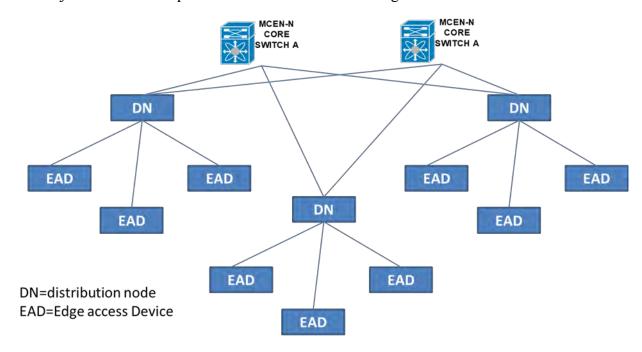


Figure 2 – BAN Reference Architecture

### 8.3.1 KEY SYSTEMS ATTRIBUTES

### 8.3.1.1 Base Area Network

Performance Objective	Performance	Method of Surveillance
BAN-1	Voice, video and data shall be converged on the single installation BAN.	Inspection
BAN-2	The BAN shall support multi-tenancy on the single installation infrastructure.	Inspection
BAN-3	The BAN shall be operated from a single management system executed from a centralized Network Operation Center (NOC) on MCB Quantico.	Inspection
BAN-4	The BAN shall operate within the constraints of the Installation Gateway.	Inspection

### 8.3.2 MAJOR FUNCTIONAL REQUIREMENT

### 8.3.2.1 WAVELENGTH DIVISION MULTIPLEXING

The Optical Transport System (OTS) for the Backbone Transport shall be comprised primarily of DWDM technology to include all equipment and components to make a complete and functional Wave Selectable Switch (WSS) Reconfigurable Optical Add/Drop Multiplexers (ROADMs) nodal network elements. The OTS may include Course Wavelength Division Multiplexing (CWDM) technology in those instances in which a point-to-point connection is required between nodes with limited circuit requirements such as a linear spur to a node in a remote location or Installations that have two CNs, only. The contractor shall leverage existing optical fiber to provide a full or partial mesh topology with no single point of failure.

Performance Objective	Performance	Method of Surveillance
WDM-1	The WDM shall provide sufficient network degrees at each node to support the topology plus one spare degree.	Inspection
WDM-2	The WDM shall provide an integrated wave selectable switch Reconfigurable Optical Add/drop Multiplexer (ROADM) to support all the nodes.	Demonstration
WDM-3	Each degree shall transmit a minimum of 40G wavelengths on the initial configuration.	Test
WDM-4	The DWDM solution shall seamlessly interface and function via a single management system with the existing DWDM systems currently installed on MCB Quantico.	Inspection
WDM-5	Path protection shall be implemented to provide high availability to each node.	Inspection

### 8.3.2.2 PASSIVE OPTICAL NETWORK (PON)

A PON network is a converged transport schema that is designed to carry multiple services such as VoIP, Data, IP Video, and Radio Frequency (RF) Video. The common PON operational framework technologies in use are Ethernet PON (EPON), Broadband PON (BPON) and Gigabit PON (GPON). GPON conforms to the ITU T G984 series (G.984.1 through G.984.7) and provides bit rates above 1 Gbps. EPON conforms to the IEEE 802.3ah and 802.3av specifications with options for 1/1 Gbps 10/1 Gbps and 10/10 Gbps.

At a high level, a PON consists of a head-end device called an Optical Line Terminal (OLT). The OLT may be deployed at the Distribution (e.g., Main Communication Node or Area Distribution Node), and Access (e.g., End User Building) Layers. End user endpoints are equipped with ONTs that provide Ethernet, 2-wire analog Plain Old Telephone Service (POTS), and even RF video. As many as 64 (and in some cases more) ONTs connect to a PON port via a single, single mode fiber whose optical signals are combined at a passive splitter. A PON utilizes Wavelength Division Multiplexing (WDM), using one wavelength for downstream traffic and another for upstream traffic across one single, single-mode

fiber optic cable. The PON specifications provide downstream traffic to be transmitted over a single fiber on the 1490 nanometer (nm) wavelength and upstream traffic to be transmitted at 1310 nm. A third 1550 nm band is allocated for overlay services, in this case, RF (analog) video.

In PON, power to the ONT is not provided via the fiber network. If power would be needed, it is provided via copper (which could be included with fiber in the network cable). Power to the ONT can be deployed in two ways, local and remote. Remote power can be provided as centralized or distributed DC plants. Centralized DC plant requires NEC Class 1 compliant cabling while Distributed DC plant requires NEC Class 2 compliant cabling.

The distributed remote power is provided by the power unit installed at the communication closet. This enables the PDU to provide power to the desktop for the ONTs using existing copper cabling that had previously been used to provide Ethernet signal to the desktop. Since this unit is modular, it can be expanded as the needs of the zone grows. This PDU must be able to provide the proper wattage to power not only for the ONT, but also the Power over Ethernet (PoE) powered devices connected to the ONT. If existing catX cables are not available, then independent x/2 cables or composite fiber and copper pair cables can be used.

Figure 3 displays PON Connectivity in the DoD operational framework, and shows a typical installation utilizing the OLT in the Distribution (ADN) and Access (EUB) Layers of the DoD UC model.

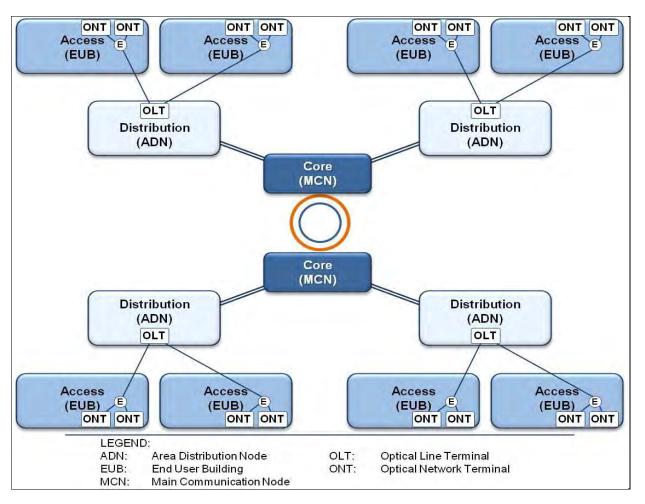


Figure 3-PON Reference Architecture

Performance Objective	Standard	Performance	Method of Surveillance
REQ001	N/A	To ensure Quality of Service (QoS), all ITSC materiel solutions must provide Differentiated Services mechanisms.	N/A
	UCR EDG- 000160	The system shall provide Differentiated Services mechanisms to ensure QoS.	Analysis
	Derived	The system shall provide different priority levels for users.	Analysis
	Derived	The system shall provide different priority levels for data flows.	Analysis
	UCR EDG- 000090	The Core and Distribution products shall be capable of accepting any packet tagged with a DSCP value (0-63) on an ingress port and reassign that packet to any new DSCP value (0-63)	Analysis

Performance	Standard	Doufoumonoo	Method of
Objective	Standard	Performance	Surveillance
	Derived	Passive Optical Network shall be capable of supporting the prioritization of aggregate service classes with queuing. Queuing may be supported as Layer 2 or Layer 3 class of service (CoS).	Analysis
REQ002	N/A	Support network "slices" in campus/base environments, which enable IT managers to segment the network for specific needs.	N/A
	Derived	The solution shall support multi-tenant network services	Analysis
	Derived	The solution shall support the capability of varying agencies communicating with one another, without mixing traffic flows.	Analysis
REQ003	N/A	Support Dynamic Bandwidth Allocation and Throttling, which enable IT managers to better manage the SLA.	N/A
	Derived	The solution shall support Dynamic Bandwidth Allocation and Throttling	Demonstration
REQ004	N/A	Provide support of standard protocols to build a PON network infrastructure – NNI Interface	N/A
	Derived	The solution shall support Virtual Local Area Network (VLAN)	Demonstration
	UCR EDG- 000410	The solution shall support 1000 Mbps IAW IEEE 802.3z for the NNI interface	Analysis
	UCR EDG- 000600	The solution shall support Rapid Configuration of Spanning Tree IAW IEEE 802.1w	Analysis
	Derived	The solution shall support Link Aggregation IAW IEEE 802.1AX (formerly 802.3ad)	Analysis
REQ005	N/A	Provide support of standard protocols to build a PON network infrastructure – OLT to PON Interface	N/A
	UCR EDG- 000610	The PON system shall provide one of the following PON (OLT-ONT) technologies: a. GPON IAW G.984 series (G.984.1 through G.984.7). b. EPON IAW 802.3ah. (1 Gbps). c. GEPON IAW 802.3av (10 Gbps)	Analysis
REQ006	N/A	Provide support of standard protocols to build a PON network infrastructure – UNI Interface	N/A

Performance			Method of
Objective	Standard	Performance	Surveillance
	Derived	The solution shall support Virtual Local	Demonstration
		Area Network (VLAN)	
	UCR SEC-	The solution shall support Port-Base Access	Analysis
	001760	Control IAW 802.1x	
	UCR SEC-	The solution shall provide Link Layer	Analysis
	000080	Discover – Media Endpoint Discovery IAW	
		ANSI TIA 1057	
	UCR SEC-	The solution shall support Auto-negotiation	Analysis
	000080	IAW IEEE 802.3	
	Derived	The solution shall support Power over	Demonstration
		Ethernet (PoE) IAW either 802.3af-2003 or	
		802.3at-2009	
REQ007	N/A	Provide support of standard management	N/A
	- · ·	protocols	<b>.</b>
	Derived	The solution shall support SNMP V3	Demonstration
	UCR	The solution shall support Secure Shell	Demonstration
	EDG-	Version 2 (SSHv2)	
	000820	TIL 1 1 11 LITTING	D
	UCR	The solution shall support HTTPS.	Demonstration
	EDG-		
DECOOO	000840	Durai la mana at fau Waine Comine	NT/A
REQ008	N/A	Provide support for Voice Services	N/A
	UCR	Latency - The PON shall have the capability	Test and
	EDG-	to transport prioritized voice	Analysis
	000720	IP packets, media, and signaling end-to-end	
		(E2E) across the PON System Under Test	
		(SUT) as measured under congested conditions.	
	UCR	Jitter - The PON shall have the capability to	Test and
	EDG-	transport prioritized voice	Analysis
	000730	IP packets across the PON SUT	7 111a1 y 515
	UCR	Actual Packet Loss - The PON shall have	Test and
	EDG-	the capability to transport prioritized IP	Analysis
	000740	packets across the PON SUT with packet	1 11101 ) 515
	300710	loss not to exceed configured traffic	
		engineered	
		(queuing) parameters.	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
REQ009	N/A	Provide support for Data Services	N/A

Performance Objective	Standard	Performance	Method of Surveillance
	UCR EDG- 000780	Latency - The PON shall have the capability to transport prioritized voice IP packets, media, and signaling end-to-end (E2E) across the PON System Under Test (SUT) as measured under congested conditions.	Test and Analysis
	UCR EDG- 000790	Actual Packet Loss - The PON shall have the capability to transport prioritized IP packets across the PON SUT with packet loss not to exceed configured traffic engineered (queuing) parameters.	Test and Analysis
REQ010	N/A	Support network "scaling" in campus/base environments, which enable IT managers to upgrade network infrastructure without service interruption.	N/A
	Derived	The solution shall support add change move of the network device without the service interruption.	Demonstration
	Derived	The solution shall support unique node upgrade in distribute systems without influence on the whole system.	Analysis
REQ011	N/A	Provide redundancy in PON network.	N/A
	UCR EDG- 000990	PON shall have no single point of failure that can cause an outage of more than 96 IP telephone subscribers.	Analysis
	UCR EDG- 001020	PON shall support a Layer 2 Dynamic Rerouting protocol. Failover shall occur in no more than 1 second.	Demonstration
REQ012	N/A	Provide centralized management and monitoring of the PON	N/A
	Derived	The solution shall provide centralized management to leverage automated tools to provision, configure and manage PON network	Analysis
	Derived	The solution shall abstract all of the complexities and dependencies and provide the user with a simple set of GUI tools to easily manage and operate the entire network.	Demonstration
	Derived	The solution shall provide database backup and restore	Demonstration

Performance Objective	Standard	Performance	Method of Surveillance
	UCR	The PON product shall support Fault,	Demonstration
	EDG-	Configuration, Accounting, Performance,	
	001110	and Security (FCAPS) Network	
		Management functions	
	Derived	The solution shall provide Secured process	Analysis
		for downloading and establishing software	-
		at the Network Element	

# **8.3.2.3** CORE AND DISTRIBUTION NODES

Performance Objective	Performance	Method of Surveillance
ADN-1	Node elements shall have a minimum of 10 Gbps uplinks to the MCEN Core Switch.	Inspection
ADN-2	There shall be two BAN core routers located in Bldg. 1999 and Bldg. 24204.	Inspection
ADN-3	The BAN core routers shall be configured in active-active configuration.	Inspection
ADN-4	The BAN core routers shall perform all BAN routing.	Inspection
ADN-5	The BAN core routers shall support MPLS.	Inspection
AND-6	DN elements shall have a minimum of 10 Gbps uplink to the Core element	Inspection

# 8.3.2.4 EDGE ACCESS DEVICE

Performance Objective	Performance	Method of Surveillance
EAD-1	Edge Access Devices that are connected to DN's shall have a minimum of 1 Gbps uplinks to the DN if there are 194 or less access ports on stacked or downstream connected access switches.	Inspection
EAD-2	Edge Access Devices that are connected to DN's shall have a minimum of 10 Gbps uplinks to the DN if there are 195 or more access ports on stacked or downstream connected access switches.	Inspection
EAD-3	Edge Access Devices shall have uplink diversity and redundancy when allowed by the outside plant.	Inspection
EAD-4	Edge Access Devices shall have a minimum of 10 Mbps end-user interfaces.	Inspection

Performance Objective	Performance	Method of Surveillance
EAD-5	Edge Access Devices shall have a minimum 10 Gbps interface to the Wireless Access Point (WAP).	Inspection
EAD-6	Edge Access Devices shall support POE+.	Inspection

## 8.4 SITE PREPARATION

Site preparation will be provided on an as needed basis at CNs and DNs nodes only. See par 5.1.3.

## 8.4.1 KEY SYSTEMS ATTRIBUTES

Performance Objective	Performance	Method of Surveillance
SP-1	The Network Power System shall provide sufficient uninterruptable AC and DC power to support all IT systems and components located in the facility.	Analysis
SP-2	The Network Power System shall provide sufficient transitional power in the event of loss of shore/commercial power until emergency backup comes on-line.	Demonstration
SP-3	Auxiliary infrastructure shall be installed IAW with all applicable Unified Facilities Criteria.	Inspection

## 8.4.2 MAJOR FUNCTIONAL REQUIREMENT

## 8.4.2.1 NETWORK POWER SYSTEM

The contractor shall validate the power requirements at the VSS. If needed, the Government may request that the Contractor provide Network Power Systems at the Core and Distribution Nodes to support all the systems and subsystems delivered as a part of the proposed solution. This Network power systems shall include an AC connection to commercial or shore power, N+1 AC UPS, Automatic Transfer Switch (ATS), self-testing network Emergency Power Off (EPO) switch, battery disconnect switch, and any necessary sub-panels, cabinet or rack power supply buss trackway and Power Distribution Units (PDUs).

Network Power Systems modernization (upgrade/replacement) will be provided on an as needed basis at Installations Core and Distribution Nodes only.

## 8.4.2.2 NETWORK PANELBOARDS AND SUBPANELS

Performance Objective	Performance	Method of Surveillance
NPS-1	All Network power panels and subpanels shall be 120/208 VAC, 3-phase, Y-connected, with separate neutral and ground conductors.	Inspection

Performance Objective	Performance	Method of Surveillance
NPS-2	Bonding of neutral and ground conductors shall be done in accordance with NFPA 70 and the NEC instruction regarding bonding of neutral to ground in a multi-panel system.	Inspection
NPS-3	AC distribution system wiring shall include a separate copper conductor marked as per NFPA 70 and the NEC instruction installed throughout all branch and feeder circuits.	Inspection
NPS-4	All network AC power panels feeding branch circuits shall be sized for not less than 25 percent growth in circuit breaker quantity.	Analysis
NPS-5	Circuit panels and circuit breakers shall not exceed 80% of the nameplate ampacity of the circuit breakers.	Inspection
NPS-6	All circuits for network equipment racks and cabinets shall be dedicated circuits.	Inspection
NPS-7	A self-testing Emergency Power Off switch shall be installed.	Demonstration

# 8.4.2.3 AC NETWORK POWER

Performance Objective	Performance	Method of Surveillance
ACP-1	A N+1,UPS shall be sized to meet designed systems power capacity, inclusive of the designed system reserve capacity.	Analysis
ACP-2	An UPS shall provide surge protection in a transformer- less topology and non-degenerative filtering for lighting strikes.	Inspection
ACP-3	An UPS shall provide load fault detection and clearing.	Demonstration
ACP-4	An UPS shall provide a harmonic reduction system to detect when harmonics, power factor or phase unbalance are out of limits and automatically corrects to the user-defined set point.	Demonstration
ACP-5	An UPS shall have the capacity to house the batteries in the same cabinet as the UPS for CNs and DNs to save floor space.	Inspection
ACP-6	An UPS shall have a three stage charging process that is capable of extending battery life by 50%.	Test
ACP-7	An UPS shall provide advanced notification prior to battery failure.	Demonstration
ACP-8	An UPS shall have a color touchscreen LCD interface.	Inspection

Performance Objective	Performance	Method of Surveillance
ACP-9	An UPS shall have internal modularity.	Analysis
ACP-10	An UPS shall have an internal maintenance bypass switch.	Inspection
ACP-11	An UPS shall have a UL 924 certification for emergency lighting.	Inspection
ACP-12	AnUPS shall be serviceable thru the front of the cabinet. It shall have the ability to be put against the wall or in a corner.	Inspection
ACP-13	An UPS shall be rated an Energy Star Qualified partner with the U.S. Environmental Protection Agency and the U.S. Department of Energy.	Inspection
AACP-14	An UPS shall provide 99% efficiency across the operating load range.	Test
ACP-15	An UPS shall provide double conversion efficiency at 97% or greater.	Test
ACP-16	An UPS shall be equipped with a quick glance from a distance system status, via green/yellow/red LED light panel.	Inspection
ACP-17	An UPS shall be equipped with power monitoring and reporting software that is compatible with HTTP(S), SNMP, MODBUS TCP/IP, Modbus RTU, and BACnet IP protocols.	Inspection
ACP-18	AnUPS shall have a safety certification that complies with the UL 1778, UL 924 Emergency Lighting and Power.	Inspection

# 8.4.2.4 DIRECT CURRENT NETWORK POWER

Performance Objective	Performance	Method of Surveillance
DCP-1	In the event a network component chassis requires DC power, a stand-alone N+1 rack mounted rectifier shall be sized and installed in the same rack to provide the required DC power capacity for that singular chassis component unless the contractor determines another method of providing DC power to be more economical.	Inspection

# 8.4.2.5 NETWORK POWER DISTRIBUTION SYSTEM

Performance Objective	Performance	Method of Surveillance
NPD-1	PDUs shall have a 3-phase 120/208 VAC four-pole modular track buss way electrical distribution system above each equipment row fed from an UPS.	Inspection
NPD-2	The PDU track buss way power system shall be rated for 225 amps and 600 volts with each equipment row fed from a separate breaker.	Inspection
NPD-3	Each installed PDU track buss way power system shall have metering capabilities for each phase that includes an automatic cycling display that display Voltage, Current, and Power Usage, at a minimum.	Demonstration
NPD-4	A plug-in unit containing a 3-phase, 30-amp circuit breaker and a receptacle or drop-down cord with receptacle shall be installed above each rack as required to accommodate the equipment rack PDU.	Inspection
NPD-5	Equipment racks and cabinets containing equipment with "A" and "B" AC power supplies shall have two (2) plug-in drops and two (2) PDUs provided.	Inspection
NPD-6	Equipment racks and cabinets containing only passive equipment (i.e., unpowered fiber optic patch panels) do not require power drops or PDUs.	Inspection
NPD-7	Each equipment rack or cabinet shall have a combination 120/208 VAC PDU.	Inspection
NPD-8	Each PDU shall have not less than nine (9) IEC 320 standard C13 receptacles.	Inspection
NPD-9	Each PDU shall have not less than three (3) IEC 320 standard C19 receptacles.	Inspection
NPD-10	Each PDU shall have not less than twelve (12) NEMA 5-20 receptacles.	Inspection
NPD-11	Each phase in the PDU shall have a dedicated breaker.	Inspection
NPD-12	Equipment racks and cabinets containing equipment with "A" and "B" power supplies shall have two PDUs provided.	Inspection

8.4.2.6 NETWORK EMERGENCY BACKUP POWER SYSTEM

Performance Objective	Performance	Method of Surveillance
EBP-1	In the event commercial or shore power is interrupted, the UPS batteries shall be sized to provide uninterruptable, transitional power for no less than 30 minutes, +/- 10 percent. If battery size does not meet the +/- 10 percent, prior Government approval will be required. A fully functional generator will be provided by the Government (B/P/C/S) as the sole source of emergency backup power.	Inspection / Demonstration
EBP-2	The batteries shall conform to the Unified Facilities Criteria (UFC) 3-520-05 and the UFC 3-520-01.	Inspection
EBP-3	The battery system shall use Valve Regulated Lead Acid (VRLA) batteries unless Lithium Ion batteries are approved by the Government.	Inspection
EBP-4	VRLA batteries shall be equipped with a battery management system to manage the battery rest and charge cycles to extend their life.	Test
EBP-5	VRLA batteries systems shall be monitored for cell failure.	Test
EBP-6	A keyed battery disconnect switch shall be installed at the exterior of the building adjacent to the entrance or in a location prescribed by the AHJ.	Inspection

# 8.4.3 AUXILLARY INFRASTRUCTURE

The contractor shall provide auxiliary infrastructure at the CNs and DNs to support the systems and subsystems delivered as a part of the proposed solution as defined by the Site Specific Requirements. Auxiliary infrastructure consists of the following: equipment racks/cabinets, bracing, seismic bracing, patch panels, ladder rack, wire cable tray, cabling, cable management system, cable testing, bonding, and grounding.

8.4.3.1 MDF, IDF, AND BACKBOARDS

Performance Objective	Performance	Method of Surveillance
MDF-1	All additional or newly installed MDF, IDF and Backboards shall comply with the Installation Information Infrastructure Architecture (I3A).	Inspection

# 8.4.3.2 CABINETS, RACKS, AND PATCH PANELS

Performance Objective	Performance	Method of Surveillance
CRP-1	Equipment cabinets and rack mounting, dimensions, doors separation or clearances, load rating, cooling fans, spare capacities, horizontal and vertical cable management, strain relief, shall conform to UFC 3-580-1.	Inspection
CRP-2	Equipment cabinets shall have a minimum load rating of 200 pounds.	Inspection / Analysis
CRP-3	Equipment cabinets shall be equipped with a lockable, removable mesh doors.	Inspection
CRP-4	Equipment cabinets shall be equipped with factory knockouts.	Inspection
CRP-5	Equipment cabinets and racks shall have an angle support and a minimum of 42 Rack Units (RUs) and be equipped with an integrated, electrically isolated ground bar.	Inspection
CRP-6	Equipment cabinets and racks shall be black or grey in color unless otherwise specified.	Inspection
CRP-7	Patch panels shall be provided and conform to the UFC 3-580-1.	Inspection
CRP-8	Patch panels shall be installed in, or adjacent to, the equipment racks or cabinets housing BAN equipment.	Inspection
CRP-9	TIA/EIA 568A duplex connectors on 19-inch rack-mounted panels shall be used unless otherwise directed.	Inspection
CRP-10	Fiber Optic Patch Panels (FOPPs) shall not exceed four RUs.	Inspection
CRP-11	All fiber-optic patch panels shall utilize pre-terminated tailed 12-strand closet connector housing cassette with SC duplex (unless specified otherwise) UPC ceramic connectors.	Inspection
CRP-12	Single-mode and multi-mode fiber optic cables shall be terminated on separate fiber optic patch panels.	Inspection
CRP-13	Patch panel labeling shall conform to TIA/EIA 606-A.	Inspection
CRP-14	Patch cables of varying lengths matching the patch panel they are connecting to shall be provided.	Inspection
CRP-15	Provide bend-insensitive, pre-terminated patch cords capable of being locked into place to avoid accidental disruption of services or tampering.	Inspection
CRP-16	CAT 6 copper cables shall terminate on EIA 568A 2-RU CAT 6 Certified Output Protection Protocol (COPP) Patch Panels.	Inspection
CRP-17	Copper Patch Cables: Copper patch cables shall be 4-pair, 24 American Wire Gauge (AWG) stranded UTP cable, rated for CAT6, with 8-pin modular connectors at each end.	Inspection

Performance Objective	Performance	Method of Surveillance
CRP-18	Copper patch panels shall consist of eight-position modular jacks with rear-mounted, type 110 insulation displacement connectors, category-rated for the UTP system being installed and arranged in rows or columns on 19-inch rack-mounted panels. Nineteen-inch wall-mounted panels may be utilized when necessary.	Inspection
CRP-19	Each FOPP and COPP shall have horizontal cable management either built into it or as an independent management system.	Inspection
CRP-20	All ironwork, including frames, cabinets, racks, and cable ladder racks, shall be installed IAW local seismic zone requirements and manufacturers specifications.	Inspection
CRP-21	All ironwork including frames, cabinets, racks, and cable ladder racks shall be isolated from any wall (at the anchor point), floors (at the anchor point), or ceilings with approved isolating materials.	Inspection

# 8.4.3.3 LADDER, WIRE CABLE TRAY, CONDUITS, EMT, PULL, AND SPLICE BOXES

Performance Objective	Performance	Method of Surveillance
LDR-1	A single tier cable ladder or wire tray system shall be provided to support for signal cabling above all equipment, cabinets, racks and the MDF. The signal cabling shall be separated from the power cables by not less than 12 inches. The power cable conduit system shall be located above the signal tier of rack. The cable ladder rack system shall not contact any surface of any equipment cabinets/racks.	Inspection
LDR-2	Ladder, wire cable tray, conduits and EMT, pull and splice boxes dimensions, separation and clearances, fill depth, headroom, fill ratios, bend radius, shall conform to the UFC 3-580-01 and I3A.	Inspection
LDR-3	Pull boxes or splice boxes shall conform to the guidance in I3A 3.6.1.3 and Article 314.28 of the National Electrical Code 2008 (NFPA 70).	Inspection
LDR-4	Twelve-inch wide ladder rack shall be used unless otherwise required.	Inspection
LDR-5	The ladder rack system shall be installed to run the full length of the room and the perimeter of the room. Each perpendicular row shall be arranged over the top of the equipment racks.	Inspection
LDR-6	Plastic or composite wire ways designed for fiber optic cables are permissible.	Inspection

Performance Objective	Performance	Method of Surveillance
LDR-7	Copper cabling shall not be installed in any dedicated fiber optic wire ways.	Inspection

# 8.4.3.4 BONDING AND GROUNDING

Performance Objective	Performance	Method of Surveillance
GND-1	Metal cabinets, racks, raceways, ladders, cable trays, enclosures, frames, fittings, EMT, pull boxes, FOC and Copper cable armor, Outside Plant (OSP) Point Of Entry (POE), Building Entrance Terminals (BETs) and other metal noncurrent carrying parts that are able to serve as grounding conductors, with or without the use of supplementary equipment grounding conductors, shall be effectively bonded where necessary to ensure electrical continuity and the capacity to conduct safely any fault currents likely to be imposed on them.	Inspection
GND-2	All Bonding, Grounding, Testing and Labeling shall conform to the I3A, ANSI/TIA 607-C, IEEE 1100-2005 Emerald Book, MIL-STD-419A and MIL-STD-188 124B. NFPA 70, and ANSI TIA-942, TIA/EIA-569-B, NEC Article 250 and the UFC-3-580-01.	Inspection
GND-3	A 2-hole non-twisting, irreversible, circumferential compression fittings, with a sight inspection hole lug shall be used to connect all bonding conductors to the TMGB, TGB, cabinet, rack and cable ladders.	Inspection

# **8.4.3.5** FIRE STOP

Performance Objective	Performance	Method of Surveillance
FSP-1	Any existing or newly created pathway thru walls, ceiling or floors that are utilized shall conform to the fire stop requirements found within the UFC 3-580-01, NFPA70, NEC, I3A.	Inspection

# 8.4.3.6 ENVIRONMENTAL HAZARDS

Performance Objective	Performance	Method of Surveillance
OSH-1	The contractor shall perform limited asbestos abatement in support of minor-construction work under a non-construction contract IAW with established OSHA standards.	Inspection
OSH-2	The contractor shall be expected to take the appropriate safety precaution IAW with established OSHA standards to continue to perform work in support of minor-construction work under a non-construction contract when lead-based paint is present.	Inspection

# 8.4.3.7 FIBER AND COPPER CABLING

Performance Objective	Performance	Method of Surveillance
FBR-1	All fiber planned for use between the CN and DNs shall be	Inspection
	characterized and if less than manufacturer's requirement the Government will be notified.	
FBR-2	Plenum cables shall be used in all plenum spaces IAW the	Inspection
	NFPA 70, or as directed by the AHJ.	
FBR-3	OSP FOC or Copper cable that extends past the POE by	Inspection
	50 feet, it shall comply with the NFPA 70	
	Section 800.113.	
FBR-4	Cables and wiring between subsystems shall be clearly and permanently labeled and conform to the TIA/EIA-606-A.	Inspection

PWS MCB QUANTICO, VIRGINIA

# 8.5 EXISTING NODES AND EQUIPMENT

The existing nodes and network and voice equipment is provided in <u>Table 5 Table 5</u> and <u>Table 6 Table 6</u>. There may be additional equipment found during the verification site survey.

Table 5 – Existing Nodes and Equipment – MCB Quantico

				Existing No	des and Equip	oment			
MCB Quantico	Core 0	ADN1	ADN2	ADN3	ADN4	ADN5	ADN6	ADN7	Russel Knox
	DCO	TBS	-	-	MCU	OCS	Upshur	Weapons	-
Building	1999	24204	3255	3300	2076	2189	26100	27282	27130C
Zone #	8	7	4	5	3	2	-	9	1
PBX	Nortel/Avaya SL100/CS2100 CM6	Tellabs Voice Gateway	-	Nortel RCC2	Nortel RCC2	Tellabs T1000	-	Nortel MGk9	-
Voice Firewall	Secure Logix	-	-	-	-	-	-	-	-
Voice Mail	Nortel	-	-	-	-	-	-	-	-
Conference Bridge	Nortel	-	-	-	-	-	-	-	-
SBC									
Gateways	Avaya G450	-	-	Avaya G450	Avaya G450	-	-	Avaya G450	-
MPLS Routers	JB-CE 1	JB-CE 2	-	-	-	-	-	-	-
SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	SONET Node	-	SONET Node	-
DWDM									
Data Distribution Router	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	CISCO 6500	-	-	-	-
ASLAN Router	Brocade	-	-	-	-	-	-	Brocade	-
GPON OLT	Tellabs 1150	Tellabs 1150	-	-	Tellabs 1150	-	-	Tellabs 1150	-
GPON ONTs - Qty	107	38	-	-	92	-	-	16	-
Data Access Switch - Qty	64	57	35	24	30	22	-	53	2

Table 6 – Existing Nodes and Equipment – Remote Sites

	I	Existing Node	es and Equip	ment – Remo	te Sites				
Remote Sites	INHZ	INHZ PKWY SCPA BAND BRRK WNYZ							
Remote Sites	NCR	NCR	NCR	HQMC	HQMC	HQMC	HQMC		
Data Distribution Router	CISCO	3750	CISCO 3750	CISCO 3750	CISCO 3750	CISCO 2811 CISCO 2911 ES2	-		
ASLAN Router	-	-	-	-	-		-		
GPON OLT	-	-	-	-	-	-	-		
GPON ONTs - Qty	=	-	-	=	-	-	=		
Data Access Switch - Qty	8	5	1	6	10	5	4		

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# APPENDIX A - MCB QUANTICO - SITE SPECIFIC EQUIPMENT

Attachment 1 provides the MCB Quantico existing nodes and equipment per site.

## CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

D. SYSTEM/ITEM E. CONTRACT/PR NO. MCB Quantico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	
MCB Quartico Modernization M67854-20-C-XXXX Technology Trends Group, LLC  1. DATA ITEM NO. A001 2. TITLE OF DATA ITEM System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  M67854-20-C-XXXX  3. SUBTITLE N/A	
1. DATA ITEM NO. A001  2. TITLE OF DATA ITEM System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System  3. SUBTITLE N/A	
A001 System Security Plan (SSP) and Associated Plans of Action for a Contractor's Internal Unclassified Information System	IES
a Contractor's Internal Unclassified Information System	IES
	IES
4. AUTHORITY (Data Acquisition Document No.) 5. CONTRACT REFERENCE 6. REQUIRING OFFICE	IES
4. AUTHORITY (Data Acquisition Document No.)  DI-MGMT-82247  5. CONTRACT REFERENCE  SOW, Section 5.2  6. REQUIRING OFFICE  USMC, MCSC	1ES
7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION 14. DISTRIBUTION	IES
XX REQUIRED As Required As Required b. cop	iLJ
8 APP CODE 11 AS OF DATE 13. DATE OF SUBSEQUENT 2 ADDRESSES	Final
N/A D $N/A$ Submission $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Addressee $A$ . Reg	
16. REMARKS COR 0	1 0
Block 5: Contractor shall provide an SSP in accordance with NIST SP 800-171, indicating PCO 0	0 1
whether the Contractor has implemented the security requirements, plans to implement the PEO/PfM ISSM 0	0 1
security requirements, or that the requirement is not applicable. Attached to the SSP shall be APM 0	0 1
a populated POA&M with all outstanding findings discovered during the self-audit	<u> </u>
describing compliance or non-compliance and plan of action(s) of the total list of security	
controls. This submission shall be upon award, on a quarterly basis or upon request.	
Tonicon Time succined sinuit es upon unitary, on a quantity case of upon 15 queen	
Block 7: Inspection/acceptance requirements specified elsewhere in the contract.	
Block 9: DISTRIBUTION STATEMENT D: Distribution authorized to the Department of	
Defense and U.S. DoD contractors only. (Reason: Administrative or Operational Use)	
(Date of Determination: DDMMMYYYY). Other requests for this documentation shall be	
referred to:	
Marine Corps System Command	
Program Office	
2200 Lester St	
Quantico, VA 22134	_
	_
Blocks 10-13: The Contractor shall deliver the initial SSP and POA&M (and appropriate	
extracts thereof) quarterly, or upon Program Management Offices request. The SSP will be	
reviewed for acceptance by the Government Program Management Office (PMO). The	
PMO shall be granted full access to validate the information in the Contractor's submission	
on an ad hoc basis without notice or upon replacement or rotation of the Government PM.	
Block 14: Notification of delivery shall be made to Stephen J. Magee, COR. Any further	
distribution beyond what's listed will be authorized by the Program Management Office	
(PMO). Email addresses for Distribution list POCs:	
COR: Stephen Magee, Stephen.j.magee@usmc.mil, 703-784-4986	
PCO: Brenda Edwards, Brenda.edwards@usmc.mil, 703-784-6541	
APfM Logistics: Darin Simmons, darin.simmons@usmc.mil, 703-432-5171	
PEO/PfM ISSM: Jeffrey Miller, Jeffrey.k.miller@usmc.mil, 703-784-6591	
Note: The Government Procuring Contracting Officer (PCO) does not require the formal	
deliverable, however the Letter of Transmittal should be sent to the PCO to document	
delivery notification and compliance with this CDRL. Deliver all copies via electronic	
media where feasible, otherwise deliver in hard copy.	
15. TOTAL → 0	1 3
G. PREPARED BY H. DATE I. APPROVED BY J. DATE	
Roger Asprer Stephen Magee	2020
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16. REMARKS (Continued)			· · **	100	<i>DJ</i> -13114 <i>B</i>	T, 220	
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#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," Configuration Management," etc.
- **Item D**. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- **Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

#### FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

## CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

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Government issuing (	Contracting Officer for th	e contract/Pi	t No. listed in Block								
A. CONTRACT L	INE ITEM NO. 00Y, 000Z	B. EXHIBIT			ОТН	er X					
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A002	A002 Cyber Incident Reporting for a N/A Contractor's Internal Unclassified Information System										
					em						
	Acquisition Document No.		5. CONTRACT REF		etion 1.6.13		6. REQUIRING OFFICE USMC,	MCSC	1		
7. DD 250 REQ	DIST STATEMENT     REQUIRED	10. FREQUE		12. DA	TE OF FIRST SUB	MISSION	14. DISTRIBL	JTION			
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Quantico, VA 22	2134										
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	PCO: Brenda Edwards, Brenda.edwards@usmc.mil, 703-784-6541										
	gistics: Darin Simmons, darin.simmons@usmc.mil, 703-432-5171 I ISSM: Jeffrey Miller, Jeffrey.k.miller@usmc.mil, 703-784-6591										
PEO/PIM ISSM	: Jenrey Miller, Jen	rey.k.miiie	r@usmc.mii, /	03-784	1-0391						
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17. PRICE GROUP

18. ESTIMATED

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D. SYSTEM/ITEM  MCB Quantico Modernization	on	E. CONTRACT M67854	-20-C-XXXX	F. CONTRACTOR	R Technology Trends (	Group, LLC	
16. REMARKS (Continued)						<b>F</b> ,	
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#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
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- Item E. Self-explanatory (to be filled in after contract award).
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- Item I. Signature of CDRL approval authority.
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- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- $ltem\ 6.$  Enter technical office responsible for ensuring adequacy of the data item.
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## **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

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4. AUTHORITY (Data	a Acquisition Document N	lo.)	5. CONTRACT RE	FERENCE			6. REQUIRING OFFICE				18. ESTIMA TOTAL
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D. SYSTEM/ITEM	E. CONTRAC		F. CONTRACTOR			
16. REMARKS (Continued)						
DD FORM 1423-1, FEB 20	01			Page	of	Pages

#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- **Item C.** Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," "Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
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- **Item 4.** Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- **Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- **Item 8.** Specify requirement for approval of a draft before preparation of the final data item.
- **Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- **Item 14.** Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

## FOR THE CONTRACTOR

- **Item 17.** Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

**DID: DI-MGMT-82247** 

#### **DATA ITEM DESCRIPTION**

Title: Contractor's Systems Security Plan and Associated Plans of Action to Implement NIST SP 800-171 on a Contractor's Internal Unclassified Information System

Number: DI-MGMT-82247 Approval Date: 20181031

AMSC Number: 9992 Limitation: DTIC DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: OSD-SO Project Number: MGMT-2018-049

**Applicable Forms: None** 

Use/relationship: This Data Item Description (DID) contains the data content, format, and intended use of the Contractor's system security plan (or extracts thereof), to include any associated plans of action, addressing the Contractor's internal unclassified information system(s). When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information - as defined in DFARS Clause 252.204-7012 - will be processed, stored, or transmitted on an unclassified information system that is owned, or operated by or for, the Contractor, the Contractor shall develop, document, and periodically update a system security plan(s), to include any associated plans of action, for the Contractor's internal unclassified information system in accordance with the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations. Security Requirement 3.12.4 of the NIST SP 800-171 requires that system security plans describe system boundaries, system environments of operation, how security requirements are implemented, and the relationships with or connections to other systems. Security Requirement 3.12.2 of the NIST SP 800-171 requires that plans of action describe how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's unclassified information system. The system security plan (or extracts thereof) and any associated plans of action may be used by the government as input to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). This DID contains the information that shall be conveyed within the system security plan and any associated plans of actions for the Contractor's internal unclassified information system. There is no prescribed format or specified level of detail for how that information is conveyed. There is no requirement for the government to approve the system security plan or any associated plans of action for the Contractor's internal unclassified information system, but the government may request that the Contractor submit the system security plan (or extracts thereof), and any associated plans of action, such that the government may review the Contractor's implementation of security requirements. When requested by the government, the submitted system security plan (or extracts thereof) and any associated plans of action for the Contractor's internal unclassified internal information system may: - Demonstrate to the government the Contractor's implementation or planned implementation of the security requirements for their internal unclassified information system, or

- Be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned, or

**DID: DI-MGMT-82247** 

operated by or for, the Contractor (i.e., Contractor's internal unclassified information system). Requirements:

- 1. <u>Reference Documents</u>: The applicable issue of the documents cited herein, including development dates and dates of any applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format acceptable.
- 3. <u>Content</u>: The system security plan (or extracts thereof) shall include a description of system boundaries, system environments of operation, how security requirements are implemented or how organizations plan to meet the requirements, and the relationships with or connections to other systems. Any associated plans of action shall include a description how the Contractor will correct deficiencies and reduce or eliminate vulnerabilities in the Contractor's information system.
- 3.1. <u>Cover Page</u>: The cover page of the system security plan (or extracts thereof) and any associated plans of action shall identify the following information:
- 3.1.1. Title of the document (i.e., Systems Security Plan and Associated Plans of Action for [Name of Contractor's Internal Unclassified Information System])
  - 3.1.2. Company name
  - 3.1.3. Data Universal Numbering Systems (DUNS) Number
  - 3.1.4. Contract number(s) or other type of agreement
  - 3.1.5. Facility Commercial and Government Entity (CAGE) code(s)
  - 3.1.6. System that this System Security Plan and any associated Plans of Action addresses
  - 3.1.7. Date of latest revision
  - 3.1.8. All appropriate distribution and classification statements/markings
- 3.2. <u>System Identification</u>: The purpose of the system security plan shall be communicated in this section, to include a description of the function/purpose of the Contractor's internal unclassified information system(s)/network(s) that is (are) addressed in the plan.
- 3.3. <u>System Environment</u>: A detailed topology narrative and graphic shall be included that clearly depicts the Contractor's internal unclassified information system boundaries, system interconnections, and key components. This does not require depicting every device, but would include an instance of operating systems in use, virtual and physical servers (e.g., file, print, web, database, application), as well as any networked workstations, firewalls, routers, switches, copiers, printers, lab equipment, etc. If components of other systems that interconnect/interface with this system need to be shown on the diagram, denote the system boundaries by referencing the security plans or names and owners of the other system(s) in the diagram. Include or reference (e.g., to an inventory database or spreadsheet) a

#### **DID: DI-MGMT-82247**

complete hardware and software inventory, including make/model/version and maintenance responsibility.

- 3.4. Security Requirements: Describe how the Contractor addresses/will address security requirements in each of the following NIST SP 800-171 security requirement families (including basic and derived requirements) for protecting covered defense information in the Contractor's systems and organizations:
  - 3.4.1. Access Control (3.1.1 3.1.x)
  - 3.4.2. Awareness and Training (3.2.1 3.2.x)
  - 3.4.3. Audit and Accountability (3.3.1 3.3.x)
  - 3.4.4. Configuration Management (3.4.1 3.4.x)
  - 3.4.5. Identification and Authentication (3.5.1 3.5.x)
  - 3.4.6. Incident Response (3.6.1 3.6.x)
  - 3.4.7. Maintenance (3.7.1 3.7.x)
  - 3.4.8. Media Protection (3.8.1 3.8.x)
  - 3.4.9. Personnel Security (3.9.1 3.9.x)
  - 3.4.10. Physical Protection (3.10.1 3.10.x)
  - 3.4.11. Risk Assessment (3.11.1 3.11.x)
  - 3.4.12. Security Assessment (3.12.1 3.12.x)
  - 3.4.13. System and Communications Protection (3.13.1 3.13.x)
  - 3.4.14. System and Information Integrity (3.14.1 3.14.x)
- 3.5. <u>Plans of Action</u>: In accordance with Security Requirement 3.12.2, provide any plans of action developed to address how and when the Contractor will implement any security requirements not yet implemented, identify known deficiencies and vulnerabilities in the contractor's internal unclassified information system, how and when the Contractor will correct identified deficiencies and reduce or eliminate vulnerabilities in the Contractor's system.

#### DI-MGMT-XXXXX

#### **DATA ITEM DESCRIPTION**

Title: Cyber Incident Reporting for a Contractor's Internal Unclassified Information System(s)

Number: DI-MGMT-XXXXX Approval Date: TBD
AMSC Number: YYYY Limitation: TBD
DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: TBD Project Number: MGMT-XXXX-XXX

**Applicable Forms: None** 

**Use/relationship:** When DFARS Clause 252.204-7012 is included in a contract for which Controlled Unclassified Information (CUI) – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted during the course of executing the terms a Department of Defense (DoD) contract, cyber incidents shall be reported to the Defense Cyber Crime Center (DC3) via the DIBNet portal.

This Data Item Description (DID) contains the information that is required of the Contractor submitting the incident report to DC3.

This information, once reported, will be shared by DC3 as threat information between the DoD and DIB companies. When DC3 receives a DFARS cyber incident report, DC3 will send an unclassified encrypted email containing the submitted incident report to the government Contracting Officer point of contact identified in the submitted report to have the report placed in the contract file to document the action, with a courtesy copy to the following:

- Director, DC3/DCISE
- Director, OSD DAMO
- Director, DIB CS/IA Program Office
- Contract Program Management Office

## **Requirements:**

- 1. Format: Use the format prescribed through the DIBNet Portal at <a href="http://dibnet.dod.mil">http://dibnet.dod.mil</a>.
  - Under "DoD's DIB Cybersecurity (CS) Program" on the right side of the page, select "Voluntary Report".
  - Since this is reporting is to satisfy a contractual requirement, select "Mandatory Incident Report".
  - Follow the "Mandatory Incident Report" wizard for the following:
    - o General Information
    - I. Company Identification
    - II. Company POC Information
    - III. Contract or other Agreement
    - IV. Incident Information
    - V. Ancillary Information

End of DI-MGMT-XXXX

DID: DI-SCRE-82258

#### **DATA ITEM DESCRIPTION**

Title: CONTRACTOR'S RECORD OF TIER 1 LEVEL SUPPLIERS RECEIVING/ DEVELOPING COVERED

**DEFENSE INFORMATION** 

Number: DI-SCRE-82258 Approval Date: 20190313

AMSC Number: 10008 Limitation: DTIC
DTIC Applicable: No GIDEP Applicable: No

Preparing Activity: RS Project Number: MGMT-2019-010

**Applicable Forms: None** 

**Use/relationship:** When Defense Federal Acquisition Regulation Supplement (DFARS) Clause 252.204-7012 is included in a contract for which covered defense information – as defined in DFARS Clause 252.204-7012 – will be processed, stored, or transmitted on a tier 1 level supplier's internal unclassified information system. (DFARS Clause 252.204-7012 can be found at https://www.acq.osd.mil/dpap/dars/dfars/html/current/252204.htm)

- a. This Data Item Description (DID) contains the information that is required of the Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information. This information will be used by the government as critical inputs to an overall risk management decision to process, store, or transmit covered defense information on an unclassified information system that is owned or operated by, or for, the contractor (i.e. contractor's internal unclassified information system). This information will:
- (1) Demonstrate to the government the Contractor's ability to restrict the dissemination of covered defense information specified in, or developed under, the contract to subcontractors that execute requirements that involve the covered defense information.
- (2) Demonstrate to the government the Contractor's ability to ensure that their tier 1 level suppliers safeguard covered defense information in accordance with DFARS Clause 252.204-7012.
- b. This DID contains the format, content, and intended use information for the data deliverable resulting from the work task described in the contract.

## Requirements:

- 1. Reference Documents: The applicable issue of the documents cited herein, including approval dates and dates of applicable amendments, notices and revisions, shall be specified in the contract.
- 2. Format: Contractor's format is acceptable.
- 3. Content: The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information must include a description of how the Contractor will identify and restrict the dissemination of covered defense information to subcontractors who require the covered defense information to execute the requirements in their contract and how the Contractor will ensure that their tier 1 level suppliers safeguard covered defense information with the requirements of DFARS Clause 252.204-7012. The Contractor's Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information shall include the following:

3.1.	Cover Page: The cover page of the Contractor's Record of Tier 1 Level Suppliers
Receivir	ng/Developing Covered Defense Information shall include:

**DI-SCRE-82258** 

- a. Title of the document (i.e., [Name of Contractor] Record of Tier 1 Level Suppliers Receiving/Developing Covered Defense Information
- b. Contractor's Data Universal Numbering Systems (DUNS) and Commercial and Government Entity (CAGE) code numbers
- c. Contract number(s) or other type of agreement (if available)
- 3.2. Tier 1 Level Supplier Information (for each Tier 1 Level Supplier receiving/developing covered defense information associated with this contract)
- a. Supplier Name
- b. Supplier contract and/or agreement number (if available)
- c. Supplier Point of Contact: name, email, and phone number
- d. Date the Tier 1 Level Supplier sub contract was put in place
- e. Number of sub contracts with Tier 1 Level Supplier
- f. Supplier contract and/or agreement contains or will contain substance of DFARS Clause 252.204-7012 Y/N
- g. Supplier contract and/or agreement contains or will contain cyber security measures and/or requirements other than those identified in DFARS Clause 252.204-7012 and National Institute of Standards and Technology (NIST) Special Publication (SP) 800- 171 Rev 1: Y/N (NIST SP 800-171 can be found at https://csrc.nist.gov/publications/detail/sp/800-171/rev-1/final
- h. Contractor's DUNS and CAGE numbers:

## DID: DI-SCRE-82258

- i. Supplier has conducted or will conduct a self-assessment in accordance with NIST SP 800-171A:Y/N (NIST SP 800-171A can be found at https://csrc.nist.gov/publications/detail/sp/800-171a/final)
- j. Supplier System Security Plan and Associated Plans of Action in accordance with NIST SP 800-171 Rev 1 Security Requirement 3.12.4 and 3.12.2
- k. List of Supplier's Tier 1 Level Suppliers receiving and/or developing covered defense information

END OF DI-SCRE-82258



DCbusdev8a@sba.gov | 202-205-8800 | www.sba.gov/dc Washington Metropolitan Area District Office (WMADO) | 409 3<sup>rd</sup> St SW, Floor 2 | Washington, DC 20416

February 7, 2022

Jeffrey A. Sisk Jr. Contract Specialist Marine Corps Systems Command Bldg. 2208 Quantico, Virginia 22134

RE: Modification to Contract number: M67854-20-C-4919, Technology Trends Group LLC, DUNS number 019805824 WMADO REQUIREMENT: 0353/20/0874

Dear Jeffrey A. Sisk Jr.,

This is to respond to your request to modify Contract Number M67854-20-C-4919 The following determination has been made.

1.\_\_\_X\_ The proposed modification may be executed pursuant to 13 CFR 124.514(d)"Modification

Within the Scope. "This increase in the amount of \$6,500,000.00 increasing from \$24,000,000.00 to \$30,500,000.00 is on a one-time-basis. In accordance with provisions contained within the contract, this is considered a modification within the scope which can be exercised by the Procurement Contracting Officer.
2X_ The proposed modification may be executed pursuant to 13 CFR 124.514 "Modification Beyond the Scope." The modification is to extend the Period of Performance (POP) from 30 September 2020 – 28 February 2022 to 28 February 2022 – 30 September 2022
3 The proposed modification may be executed pursuant to 13 CFR 124.514 (3) (c) "Modification Beyond the Scope." It is suggested that, if your agency has a continuing need to increase these services under this contract, that you consider procuring these services under the SBA 8(a) competitive arena as a new contract. There will be no further increases authorized under this contract.

4.\_\_\_\_ The proposed modification contract cannot be executed. The modification has been

determined to be beyond the original scope of the contract pursuant to 13 CFR 124.514 "Modification

Beyond the Scope." The firm is ineligible to receive increases in accordance with 13 CFR 124.514(a)(3c). (A modification beyond the scope of the initial 8(a) contract award is considered to be a new contracting action. It will be treated the same as an unpriced option).

5.\_\_\_ Other (s) You are authorized to bridge the contract on a one-time-basis, with a not to exceed a 6 month period. This provision is granted to allow your agency to prepare for the re-procurement of this requirement. (FAR 16.191(b) and 13. CFR 124.514(b))

Further inquiries may be directed to the Business Development Team, at (202) 205-8800.

Thank you,

Supervisory Business Opportunity Specialist 8(a) Business Development Program

